

C15


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1  /* *****
2  * This API is an enhancement of the RECOVER API.
3  *
4  * support restore function of Symmetrix Connect backups as well as
5  * backups. In addition, it has been implemented in a client/restore
6  * architecture, where the restore GUI on an IBM Client can
7  * initiate restores from the EDW server.
8  *
9  * *****
10 * To access, via OMC RPO,
11 * the restore functions provided on the EDW server.
12 *
13 * This API is defined to allow access to catalog information without
14 * requiring structures or data types. This API should remain
15 * extendable through the use of data hiding techniques.
16 *
17 * Note:
18 * -----
19 * This API uses the philosophy that the caller is responsible for
20 * and freeing of objects. This should remain consistent throughout.
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	99	Backup_Bad;
	98	Backup_Expired;
	60	Backup_Child_Without_Data) BackupStatus;
	61	
	62	
	63	typedef enum {Media_Online,
	64	Media_Offline,
	65	Media_Offline, MediaStatus;
	66	
	67	typedef enum {Always_Overwrite,
	68	Never_Overwrite,
	69	Older_Only_Overwrite} OverwritePolicy;
	70	
	71	typedef enum {Files_Only,
	72	Directories_Only,
	73	Others_Only, FileType;
	74	All_File_Types} FileType;
	75	
	76	typedef enum {RestoreFromTransportSI,
	77	RestoreFromTransportNetwork} RestoreFromTransport;
	78	
	79	typedef enum {EBRNC_AllSizes,
	80	EBRNC_Equal,
	81	EBRNC_GreaterThan,
	82	EBRNC_GreaterOrEqual,
	83	EBRNC_LessThan,
	84	EBRNC_LessOrEqual} MatchType;
	85	
	86	typedef char hostname_t[];
	87	
	88	typedef void *serverHandle;
	89	
	90	#define MAX_TEMPLATE_LEN 64
	91	typedef char template_name_t[MAX_TEMPLATE_LEN];
	92	
	93	typedef struct _EBRNCST_submic_args
	94	{
	95	char *
	96	clientSocketPort;
	97	"mapfile_env";
	98	} EBRNCST_submic_args;
	99	
	100	typedef struct _EBRNC_SearchCriteriaLabc
	101	{
	102	startDirectory[256]; /* Directory to start searching */
	103	boolean_t descend; /* Flag to descend into sub dirs */
	104	char searchString[128];
	105	/* Setting to search for (as in find) */
	106	boolean_t excludeString;
	107	FileType typeOfFile;
	108	owner_t[64];
	109	/* Specific owner of files (or '\0') */
	110	boolean_t excludeOwner;
	111	/* Ping to include or exclude owner */
	112	char group[64];
	113	/* Specific group of files (or '\0') */
	114	boolean_t excludeGroup;
	115	/* Ping to include or exclude group */
	116	upper_string_t pres;
	117	MatchType matchType;
	118	/* The type of matching to do for size */
	119	int size; /* The type of matching to do for size */
	120	};

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```

228 * svrhdl (I) - A pointer to this user's client handle for the
229 * Restore Engine (server) connection.
230 *
231 *
232 eerrno_ly EEMRST_Finish( serverHandle svrhdl );
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345	* This routine allocates space for one query object.	
346	* Parameters:	
347	svrhdl (I) - A pointer to this user's client handle for the	
348	Restore Engine (server) connection. (must be valid)	
349	queryObject (O) - pointer to the query object	
350	Return Codes:	
351	E_SUCCESS	
352	E_SUCCESS - operation completed successfully	
353	E_P9_RECOVER_BAD_ARGS	
354	E_P9_RECOVER_BAD_ARGS - operation completed successfully	
355	E_P9_RECOVER_NOMEN	
356	E_P9_RECOVER_NOMEN - operation completed successfully	
357	EDMRST_AllocQueryObject(serverHandle svrhdl,	
358	queryObjectPtr queryObject);	
359	.....
360	Free Query Object:	
361	.....
362	* This routine frees the space for one query object.	
363	.....
364	Parameters:	
365	svrhdl (I) - A pointer to this user's client handle for the	
366	Restore Engine (server) connection. (
367	must be valid)	
368	queryObject (
369	IO - ptr to the query object to free -- will be set to NULL	
370	Return Codes:	
371	E_SUCCESS	
372	E_P9_RECOVER_BAD_ARGS - operation completed successfully	
373	E_P9_RECOVER_INVALID - input objtype is invalid	
374	E_P9_RECOVER_INVALID - operation completed successfully	
375	EDMRST_FreeQueryObject(serverHandle svrhdl,	
376	queryObjectPtr queryObject);	
377	.....
378	Alloc Feedback Object:	
379	.....
380	* This routine allocates space for one feedback object.	
381	.....
382	Parameters:	
383	svrhdl (I) - A pointer to this user's client handle for the	
384	Restore Engine (server) connection. (must be valid)	
385	feedbackObject (O) - pointer to the allocated object	
386	Return Codes:	
387	E_SUCCESS	
388	E_SUCCESS - operation completed successfully	
389	E_P9_RECOVER_BAD_ARGS	
390	E_P9_RECOVER_BAD_ARGS - operation completed successfully	
391	E_P9_RECOVER_NOMEN	
392	E_P9_RECOVER_NOMEN - operation completed successfully	
393	EDMRST_AllocFeedbackObject(serverHandle svrhdl,	
394	feedbackObjectPtr feedbackObject);	
395	.....
396	Free Feedback Object:	
397	.....
398	* This routine frees the space for one feedback object.	
399	.....
400	Parameters:	
401	svrhdl (I) - A pointer to this user's client handle for the	
402	Restore Engine (server) connection. (
403	Not used)	
404	feedbackObjectPtr (
405	IO - the feedback object to free -- will be set to NULL.	
406	
407	Header/footer, apn 7	Fit Jan 04 14:31:46 2008

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405	* Return Codes:	
406	E_SUCCESS	
407	E_P9_RECOVER_BAD_ARGS - operation completed successfully	
408	E_P9_RECOVER_BAD_ARGS - operation completed successfully	
409	E_P9_RECOVER_NOMEN	
410	E_P9_RECOVER_NOMEN - operation completed successfully	
411	EDMRST_FreeFeedbackObject(serverHandle svrhdl,	
412	feedbackObjectPtr feedbackObject);	
413	.....
414	EDMRST_GetFeedbackStatus	
415	.....
416	* Function Description:	
417	Returns the pointer to the string that contains the text	
418	for the provided enum.	
419	.....
420	Parameters:	
421	status (
422	I) This is the enum that is returned from a GetFeedbackObject	
423	call to the restore engine	
424	Return:	
425	On success: a pointer to a NULL-terminated string which is the	
426	text for the provided enum;	
427	On failure: NULL pointer	
428	.....
429	char * EDMRST_GetFeedbackStatus(RunningState status);	
430	.....
431	/* From the eb_cfg database	
432	/* The following functions obtain configuration information	
433	.....
434	.....
435	.....
436	Get Source Hosts:	
437	.....
438	* This function is provisable to allow retrieval of the	
439	hosts which are restorable by a given user.	
440	.....
441	Goal:	
442	For a host to be restorable there must have been at least one	
443	successful backup.	
444	.....
445	* The cookie must be initialize to INIT_COOKIE on the first call to	
446	this routine.	
447	This routine will update the cookie to allow retrieval of more	
448	objects if there is more than "maxEntries". The cookie will be	
449	returned as DONE_COOKIE when there are no more to retrieve.	
450	.....
451	Parameters:	
452	svrhdl (I) - A pointer to this user's client handle for the	
453	Restore Engine (server) connection. List of	
454	restorable hosts will be filtered based on	
455	the value of "hostname".	
456	maxEntries (I) - the maximum number of hosts to return	
457	hosts (O) - a pre-allocated array to return the hosts in	
458	numberEntries (
459	O) - the real number of hosts returned in the array	
460	cookie (IO) - a place holder for the list position	
461	.....
462	Header/footer, apn 8	Fit Jan 04 14:31:46 2008


```

593 * This routine is provided in the event that the goal of the
594 * work-item time routines to include all templates cannot be met.
595 *
596 * The cookie must be initialize to INIT_COOKIE on the first call to
597 * this
598 * routine.
599 * Routine will update the cookie to allow retrieval of more
600 * objects if there is more than "maxIndices". The cookie will be
601 * returned as DONE_COOKIE when there are no more to retrieve.
602 *
603 * Parameters:
604 *   svrhdl      (I) - A pointer to this user's client handle for the
605 *   cookie       (I) - the top level object in question
606 *   maxIndices   (I) - the maximum number of templates to return
607 *   templates     (O) - a pre-allocated array to return the templates in
608 *   numberIndices (I) - the real number of templates returned in the array
609 *   cookie        (IO) - a place holder for the list position
610 *
611 *errno_tly EDWRST_GetTopLevelTemplate( serverHandle svrhdl,
612 *                                     const restoreObjObjectPtr
613 *                                     cobjLevelObj,
614 *                                     const short
615 *                                     maxIndices,
616 *                                     const template_name_tly
617 *                                     template_name,
618 *                                     const short
619 *                                     long
620 *                                     *numberIndices,
621 *                                     long
622 *                                     cookie );
623 *
624 *
625 *
626 * Does Alternate Exist:
627 *
628 * This routine determines if an alternate trailset exists for the
629 * given
630 * template.
631 *
632 * Parameters:
633 *   svrhdl      (I) - A pointer to this user's client handle for the
634 *   restoreObj   (I) - Restore Engine (server) connection.
635 *   cobjLevelObj (I) - The top level object in question
636 *   template     (I) - The name of the template to look for
637 *   exists       (O) - Return flag for whether or not the alternate exists
638 *   svrhdl       (I) - A pointer to this user's client handle for the
639 *   restoreObj   (I) - Restore Engine (server) connection.
640 *   template     (I) - The name of the template to look for
641 *   exists       (O) - Return flag for whether or not the alternate exists
642 *
643 *errno_tly EDWRST_DoesAlternateExist( serverHandle svrhdl,
644 *                                     const restoreObjObjectPtr
645 *                                     cobjLevelObj,
646 *                                     const template_name_tly
647 *                                     template_name,
648 *                                     const boolean_tly
649 *                                     boolean,
650 *                                     boolean_tly
651 *                                     exists );
652 *
653 * This routine sets the template to be used by the specified top
654 * level
655 *
656 * Set Top Level (formerly Work Item) Template:
657 *
658 * This routine sets the template to be used by the specified top
659 * level

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626 * object (work item, or CBO) and specifies whether or not to use the
627 * alternate trailset.
628 *
629 * Parameters:
630 *   svrhdl      (I) - A pointer to this user's client handle for the
631 *   restoreObj   (I) - Restore Engine (server) connection.
632 *   workItem     (I) - The top level object to update
633 *   template     (I) - The name of the template to use
634 *   alternate     (I) - Flag whether or not to use the alternate trailset
635 *
636 *errno_tly EDWRST_SetTopLevelTemplate( serverHandle svrhdl,
637 *                                     const restoreObjObjectPtr
638 *                                     workItem,
639 *                                     const template_name_tly
640 *                                     template_name,
641 *                                     const boolean_tly
642 *                                     alternate );
643 *
644 *
645 * Backup Configuration Query Functions
646 *
647 * Get Current Template:
648 *
649 * This routine returns the name of the template that is used by
650 * the currently selected top level object (
651 * work item) and the flag
652 * on whether or not the alternate trail is being used.
653 *
654 * Parameters:
655 *   svrhdl      (I) - A pointer to this user's client handle for the
656 *   restoreObj   (I) - Restore Engine (server) connection.
657 *   template     (I) - The name of the current template
658 *   alternate     (O) - Flag whether or not the alternate trailset is being used.
659 *
660 *errno_tly EDWRST_GetCurrentTemplate( serverHandle svrhdl,
661 *                                     const restoreObjObjectPtr
662 *                                     template_name,
663 *                                     boolean_tly
664 *                                     *alternate );
665 *
666 * GetCurrentBackupTime:
667 *
668 * This routine returns the time of the backup as selected for the
669 * work item.
670 *
671 * Parameters:
672 *   svrhdl      (I) - A pointer to this user's client handle for the
673 *   restoreObj   (I) - Restore Engine (server) connection.
674 *   time         (O) - The time the backup for the work-item was run
675 *
676 *errno_tly EDWRST_GetCurrentBackupTime( serverHandle svrhdl,
677 *                                     const restoreObjObjectPtr
678 *                                     *time );
679 *
680 * Backup Time Selection Functions
681 *
682 *
683 *

```

```

685 /*****
686 * SetRecoverBackup
687 *
688 * This routine sets the recover environment to the previous backup
689 * of the currently selected work item
690 *
691 * Goal (?)
692 * This includes both primary and alternate trailersets for all
693 * templates for which this work-item has backups.
694 *
695 * Parameters:
696 *   svrhd1 (I) - A pointer to this user's client handle for the
697 *   Restore Engine (server) connection.
698 *
699 *   Flags (I) - Selection Flags: e.g., Complete backups only/partial ok
700 *
701 *   errno_cy ERMNST_SetRecoverBackup( serverhandle svrhd1, flags );
702 *   u_long
703 *
704 * *****/
705 * SetRecoverBackup
706 *
707 * This routine sets the recover environment to the the next backup
708 * of the specified work item.
709 *
710 * Goal:
711 * This includes both primary and alternate trailersets for all
712 * templates for which this work-item has backups.
713 *
714 * Parameters:
715 *   svrhd1 (I) - A pointer to this user's client handle for the
716 *   Restore Engine (server) connection.
717 *
718 *   Flags (I) - Selection Flags: e.g., Complete backups only/partial ok
719 *
720 *   errno_cy ERMNST_SetRecoverBackup( serverhandle svrhd1, flags );
721 *   u_long
722 *
723 * *****/
724 * SetFirstBackup
725 *
726 * This routine sets the recover environment to the first backup
727 * kept for the specified work item.
728 *
729 * Goal:
730 * This includes both primary and alternate trailersets for all
731 * templates for which this work-item has backups.
732 *
733 * Parameters:
734 *   svrhd1 (I) - A pointer to this user's client handle for the
735 *   Restore Engine (server) connection.
736 *
737 *   Flags (I) - Selection Flags: e.g., Complete backups only/partial ok
738 *
739 *   errno_cy ERMNST_SetFirstBackup( serverhandle svrhd1,
740 *   u_long flags );
741 *
742 * *****/
743 * SetRecoverRecentBackup
744 *
745 * This routine sets the recover environment to the most recent

```

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746 * of the specified work item.
747 *
748 * Goal:
749 * This includes both primary and alternate trailersets for all
750 * templates for which this work-item has backups.
751 *
752 * Parameters:
753 *   svrhd1 (I) - A pointer to this user's client handle for the
754 *   Restore Engine (server) connection.
755 *
756 *   Flags (I) - Selection Flags: e.g., Complete backups only/partial ok
757 *
758 *   errno_cy ERMNST_SetRecoverRecentBackup( serverhandle svrhd1,
759 *   u_long flags );
760 *
761 * *****/
762 * Get All Backup Times:
763 *
764 * This function is provided to allow retrieval of the times which
765 * the given work-item was backed up.
766 *
767 * The cookie must be initialize to INVT_COOKIE on the first call to
768 * this routine.
769 *
770 * This routine will update the cookie to allow retrieval of more
771 * objects if there is more than "maxEntries". The cookie will be
772 * returned as DONE_COOKIE when there are no more to retrieve.
773 *
774 * Parameters:
775 *   svrhd1 (I) - A pointer to this user's client handle for the
776 *   Restore Engine (server) connection.
777 *
778 *   startime (I) - first time which should be returned. (long before)
779 *
780 *   endtime (I) - last time which should be returned. (nothing after)
781 *
782 *   Flags (I) - Backup constraint flags: e.g. full-only/partial-ok
783 *
784 *   maxEntries (I) - the maximum number of templates to return
785 *   times
786 *   numberEntries (O) - a pre-allocated array to return the times in
787 *   cookie (O) - the real number of templates returned in the array
788 *   cookie (IO) - a place holder for the last position
789 *
790 *   errno_cy ERMNST_GetAllBackupTimes( serverhandle svrhd1,
791 *   const time_t startime,
792 *   const time_t endtime,
793 *   u_long flags,
794 *   const short maxEntries,
795 *   time_t *times,
796 *   short *numberEntries,
797 *   long *cookie );
798 *
799 * *****/
800 * Set Backup for Time
801 *
802 * This routine sets the recover environment to the given backup time
803 *
804 * Goal:
805 * This includes both primary and alternate trailersets for all
806 * templates for which this work-item has backups.
807 *
808 * Parameters:
809 *   svrhd1 (I) - A pointer to this user's client handle for the

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804 * Restore Engine (server) connection.
805 *
806 * Time (I) - The time desired
807 *
808 * Flags (I) - Selection Flags: e.g., Complete backups only/partial ok
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860 * thisObject (I) - The restored object
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920	edmno_ly EDMNST_IsoObjectSearchable(serverHandle	svrHdl,		927	/		
921	const restorableObject chObjec	boolean_ly	*markable);	928	* Get Network Support		
922			929	* This routine determines if a top level object supports restore		
924			930	the network		
925	* Is Object Searchable			931	* Parameters:		
926	* This routine determines if a top level object supports the Find			932	svrHdl (I) - A pointer to this user's client handle for the		
927	Function.			933	Restore Engine (server) connection.		
928	* Parameters:			934	chObjec (I) - The restored object to query		
929	svrHdl (I) - A pointer to this user's client handle for the			935	restorable (O) - TRUE/FALSE indicating restorable over Symm (
930	Restore Engine (server) connection.			936	SCSI)		
931	chObjec (I) - The restored object to query			937	* Return Codes:		
932	restorable (O) - TRUE/FALSE indicating restorable or not			938	E_SUCCESS - operation completed successfully		
933			939	ED_RR_RECOVER_BAD_ARGS		
934	* Return Codes:			940	ED_RR_RECOVER_RFC_FAIL		
935	E_SUCCESS - operation completed successfully			941	ED_RR_RECOVER_SERVER_FAIL		
936	ED_RR_RECOVER_BAD_ARGS			942	ED_RR_RECOVER_INVALIDOP		
937	ED_RR_RECOVER_RFC_FAIL			943		
938	ED_RR_RECOVER_SERVER_FAIL						
939	ED_RR_RECOVER_INVALIDOP						
940						
941	* If another request active						
942						
943						
944	edmno_ly EDMNST_IsObjectSearchable(serverHandle	svrHdl,		949	edmno_ly EDMNST_GetNetworkRestoreOption(serverHandle	svrHdl,	
945	const restorableObject chObjec	boolean_ly	*searchable);	950	const restorableObject rc	boolean_ly	*net_restorable);
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edmno_ly EDMNST_GetSymmRestoreOption(serverHandle	svrHdl,			edmno_ly EDMNST_FindRestorableObjects(serverHandle	svrHdl,	
const restorableObject rc	boolean_ly	*symm_restorable);		EDMNST_SearchCriteria	EDMNST_SearchCriteria	*searchCriteria);	
boolean_ly	*symm_restorable);						

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<pre> 1028 /***** 1029 * EDNRST_GetDirResults Parameters: 1030 * 1031 * svrHdl 1032 * { 1033 * (I) - A pointer to this user's client handle for the 1034 * Interrupt 1035 * (I) - requests cancellation of the find (if TRUE) 1036 * maxResults 1037 * { 1038 * (I) - the maximum number of found objects to return 1039 * objects 1040 * { 1041 * (I) - a pre-allocated array to return the objects in 1042 * times 1043 * { 1044 * (I) - a pre-allocated array to return the backup times in 1045 * numberEntries 1046 * { 1047 * (I) - the real number of objects returned in the array 1048 * cookie 1049 * (IO) - a place holder for the list position 1050 * 1051 * *****/ 1052 extern LY_EDNRST_GetDirResults(serverHandle 1053 * svrHdl, 1054 * Interrupt, 1055 * const long 1056 * maxResults, 1057 * restoreObjObjectPtr 1058 * times, 1059 * long 1060 * numberEntries, 1061 * long 1062 * cookie); 1063 /***** 1064 * MarkObject() and GetMarkResults() 1065 * 1066 * MarkObject is passed a restoreObjObject and marks files for 1067 * recovery based on the input criteria. It returns an asynchronous operation 1068 * in the Restore Engine to perform the marking, and returns. 1069 * 1070 * GetMarkResults is called to test for completion of the mark 1071 * and receive results when it is done. 1072 * It can also be used to interrupt 1073 * the mark operation. 1074 * 1075 * MarkObject Parameters: 1076 * 1077 * svrHdl 1078 * { 1079 * (I) - A pointer to this user's client handle for the 1080 * Restore Engine (server) connection. 1081 * thidObj 1082 * { 1083 * (I) - The restore object; 1084 * can be a leaf object (e.g. a 1085 * file), or a container object (1086 * e.g., a directory). 1087 * time 1088 * { 1089 * (I) - / 1090 * optional) the backup time to perform the mark on -- 1091 * if not specified, 1092 * uses currently selected backup; if 1093 * specified, 1094 * leaves selected backup time unchanged 1095 * allowBadFiles 1096 * { 1097 * (I) - allows marking of files of state BADDATA. 1098 * descend 1099 * { 1100 * (I) - Should mark operation descend to operate on the content 1101 * of container objects. 1102 * 1103 * *****/ 1104 extern LY_EDNRST_MarkObject(serverHandle 1105 * svrHdl, 1106 * restoreObjObjectPtr 1107 * thidObj, 1108 * time, 1109 * bool, 1110 * allowBadFiles, 1111 * bool, 1112 * bool); 1113 /***** 1114 * Header/restore_sph 19 1115 * 1116 * Fr Jan 04 14:31:46 2008 </pre>	<pre> 1079 bool, 1100 LY 1101 descend); 1102 /***** 1103 * GetMarkResults Parameters: 1104 * 1105 * svrHdl 1106 * { 1107 * (I) - A pointer to this user's client handle for the 1108 * Interrupt 1109 * (I) - Restore Engine (server) connection (if TRUE) 1110 * WARNING: If the operation is aborted 1111 * the mark will be 1112 * left in an unknown state. 1113 * That is, 1114 * any one of the 1115 * descendants of the marked object may be 1116 * marked or not. 1117 * It is up to the caller to determine how to 1118 * proceed 1119 * afterwards. 1120 * 1121 * BadFileCount (O) - returns the file count with BADDATA. 1122 * PermObjFileCount (O) -- returns the file count with permission denied. 1123 * fileMarked 1124 * { 1125 * (I) - return the total files marked after this mark occurred. 1126 * dirMarked 1127 * { 1128 * (I) - return the total directories marked after this mark 1129 * occurred. 1130 * otherMarked 1131 * { 1132 * (I) - return the total "other" files marked after this mark. 1133 * 1134 * *****/ 1135 extern LY_EDNRST_GetMarkResults(serverHandle 1136 * svrHdl, 1137 * bool, 1138 * LY 1139 * u_long 1140 * BadFileCount, 1141 * u_long 1142 * u_long 1143 * u_long 1144 * u_long 1145 * u_long 1146 * u_long 1147 * u_long 1148 * otherMarked); 1149 /***** 1150 * UnmarkObject() and GetUnmarkResults() 1151 * 1152 * UnmarkObject operates like MarkObject, 1153 * in that it is supported through 1154 * two API calls -- UnmarkObject and GetUnmarkResults. Unmark starts an 1155 * asynchronous operation in the Restore Engine to perform the 1156 * unmarking. 1157 * 1158 * GetUnmarkResults is called to test for completion of the unmark 1159 * and receive results when it is done. 1160 * It can also be used to interrupt 1161 * the unmark operation. 1162 * 1163 * UnmarkObject Parameters: 1164 * 1165 * svrHdl 1166 * { 1167 * (I) - A pointer to this user's client handle for the 1168 * Restore Engine (server) connection. 1169 * thidObj 1170 * { 1171 * (I) - The restore object; 1172 * can be a leaf object (e.g. a 1173 * file), or a container object (1174 * e.g., a directory). 1175 * time 1176 * { 1177 * (I) - / 1178 * optional) the backup time to perform the unmark on -- 1179 * if not specified, 1180 * uses currently selected backup; if 1181 * specified, 1182 * leaves selected backup time unchanged 1183 * allowBadFiles 1184 * { 1185 * (I) - allows unmarking of files of state BADDATA. 1186 * descend 1187 * { 1188 * (I) - Should unmark operation descend to operate on the content 1189 * of container objects. 1190 * 1191 * *****/ 1192 extern LY_EDNRST_UnmarkObject(serverHandle 1193 * svrHdl, 1194 * restoreObjObjectPtr 1195 * thidObj, 1196 * time, 1197 * bool, 1198 * allowBadFiles, 1199 * bool, 1200 * bool); 1201 /***** 1202 * Header/restore_sph 20 1203 * 1204 * Fr Jan 04 14:31:46 2008 </pre>

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1127 * file), or a container object (
1128 * (I) - {
1129 * optional) the backup time to perform the unmark on --
1130 * If not specified,
1131 * use currently selected backup; if
1132 * specified,
1133 * leave selected backup time unchanged
1134 *
1135 * BadFileOnly (
1136 * I) - allows unmarking ONLY of files of state BADDATA.
1137 * descend
1138 * I) - Should unmark operation descend to operate on the
1139 * content of container objects.
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1115      hierarchy level,
1116      i.e. objects that have the same parent restorableObject.
1117
1118      Parameters:
1119
1120      * svrhdl (I) - A pointer to this user's client handle for the
1121      * Restore Engine (server) connection.
1122      * numObjects (I) - number of objects in hierarchy to be checked
1123      * bufArray (O) - restorable objects to be checked for marks
1124      * numChecked (O) - number of objects in hierarchy found marked
1125      * marked (O) - array of booleans to receive individual marked
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[illegible][illegible]

1463	executing
1465	edmno.Ly EDMNST_GetRestoreFeedback(serverHandle	svrHdl,	
1466	const boolean, Ly, qutRestore,	
1467	RRunningState, *currentState,	
1468	feedbackObjectPtr feedbackPtc);	
1470		
1471	GetQuestion	
1472		
1473	* This function is used to fetch the data needed to query the user	
1474	during a	
1475	pre-restore or post-restore script execution.	
1476	Parameters:	
1477	* svrHdl (I) - A pointer to this user's client handle for	
1478	the Restore Engine (server)	
1479	queryPtc (O) - Pointer to the object containing the question data.	
1480		
1481	Return Codes:	
1482	* E_SUCCESS	- operation completed successfully
1483	EP_RJ_RECOVER_BAD_ARGS	
1484	EP_RJ_RECOVER_ARGC_FAIL	
1485	EP_RJ_RECOVER_SERVER_FAIL	
1486	EP_RJ_RECOVER_INVALIDP	-if no question awaiting answer
1487		
1488		
1489	edmno.Ly EDMNST_GetQuestion(serverHandle	svrHdl,	
1490	queryObjectPtc queryPtc);	
1491		
1492		
1493	SetUserAnswer	
1494		
1495	* This function is used to return user input requested via the	
1496	feedbackPtc	
1497	* parameter output of the GetRestoreFeedback function call.	
1498	Parameters:	
1499	* svrHdl (I) - A pointer to this user's client handle for	
1500	the Restore Engine (server) connection.	
1501	QueryPtc (I) - Pointer to structure containing the query and response	
1502	data.	
1503	* answer (I) - pointer to text string response to question.	
1504		
1505	* more (I) - indicator that there will be more answers to this question	
1506		
1507	Return Codes:	
1508	* E_SUCCESS	- operation completed successfully
1509	EP_RJ_RECOVER_BAD_ARGS	
1510	EP_RJ_RECOVER_ARGC_FAIL	
1511	EP_RJ_RECOVER_SERVER_FAIL	
1512	EP_RJ_RECOVER_INVALIDP	-if no question awaiting answer
1513		
1514		
1515		
1516		
1517	edmno.Ly EDMNST_SetUserAnswer(serverHandle	svrHdl,	
1518	queryObjectPtc queryPtc,	
1519	more);	
1520	boolean, Ly	
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1874		

[illegible]

```

1980 * Level for backup being restored
1981 *
1982 * Parameters:
1983 *   svtchd1
1984 *   (I) - A pointer to this user's client handle for the
1985 *   backup_time
1986 *   (I) - Time of the backup that is being looked at
1987 *   *level
1988 *   (O) - The level of the backup for specified time
1989 *   taken from catalog structure. If not enough
1990 *   memory has been allocated value will be *10*
1991 *
1992 *   *numrec
1993 *   (O) - The number of records for the specified backup
1994 *   taken from catalog structure. If not enough
1995 *   memory has been allocated value will be *10*
1996 *
1997 *   *catType
1998 *   (O) - The type of catalog for the specified backup
1999 *   taken from catalog structure. If not enough
2000 *   memory has been allocated value will be *10*
2001 *
2002 * Return Codes:
2003 *   EP_RP_RECOVER_BAD_ARGS - arguments passed in are null
2004 *   E_SUCCESS
2005 *   - the fields have been filled in
2006 *   and RPC succeeded
2007 *
2008 *
2009 *
2010 *
2011 *
2012 *
2013 *
2014 *
2015 *
2016 *
2017 *
2018 *
2019 *
2020 *
2021 *
2022 *
2023 *
2024 *
2025 *
2026 *
2027 *
2028 *

```

```

endif /* IL_RESTOREAPI */

```



```

106 2 GUTTL_DrawFocusBorder ((
      WcPctr)REST_RestoreWin->BackUpArea, BOOL_TRUE);
108 2 if (WCTL_HasFocus ((
      GUTTL_DrawFocusBorder ((
      WcPctr)REST_RestoreWin->SelectedListBox, BOOL_TRUE);
109 2 if (WCTL_HasFocus ((
      GUTTL_DrawFocusBorder ((
      WcPctr)REST_RestoreWin->SelectedListBox, BOOL_TRUE);
111 2 if (WCTL_HasFocus ((
      GUTTL_DrawFocusBorder ((
      WcPctr)REST_RestoreWin->MedialListBox, BOOL_TRUE);
112 2 if (WCTL_HasFocus ((
      GUTTL_DrawFocusBorder ((
      WcPctr)REST_RestoreWin->MedialListBox, BOOL_TRUE);
114 2 break;
115 2 case WIN_NEWRESIZE:
116 2 GUTTL_WindowResize ((WinPctr)Win);
117 2 break;
118 2 default:
119 2 WIN_DeclNty(Win, Code);
120 2 }
121 1 }
123 )

```

```

125 static void C_PAR_S_MedialListBoxNty 121
      (ListBoxPctr, lbox, lboxNtyEnum, code)
126 1 {
128 2 switch (code) {
129 2 /* USER CODE */
130 2 case LBOX_NOTIFYLDRLEFT:
131 2 REST_DisposedMedialInfo (lbox);
132 2 break;
133 2 default:
134 2 GUTTL_LBox_DeclNty (lbox, code, REST_GetMedialListBoxValues);
135 1 }
137 }

```

```

139 static void C_PRR_SelectedListBoxBy L2(
140     ListBox, lbox, lboxCpNum, code)
141 {
142     switch (code) {
143         /* USER CODE */
144         case LBOX_NVCSELDELETE:
145             REST_DisposeSelectedInfo (lbox);
146             REST_NVCSELOPERATION;
147             case LBOX_NVCSELOPERATION;
148             REST_UpdateRemoveButtons ();
149             break;
150             default:
151                 GUTTL_LBOX_Define(lbox, code, REST_GetSelectedListBoxValues);
152     }
153 }
154

```

```

156 /* (( CodeGen: MytMyHandler HitPrevBackButton
157 static void C_PRR_RestoreRestoreWin_HitPrevBackButton L1(
158     /*
159     RestoreRestoreWinH, win)
160     )
161

```

```

161      /* */ CodeGen: MgrWtHandler HtCpWebBackupButton
163      /* ( CodeGen: MgrWtHandler HtCalendarButton
164      static void C_PAN RestoreRestoreWin_HtCalendarButton LI(
165      {
166      REST_CalendarButtonSelect ();
167      }

```

```

168      /* */ CodeGen: MgrWtHandler HtCalendarButton
170      /* ( CodeGen: MgrWtHandler HtNextBackupButton
171      static void C_PAN RestoreRestoreWin_HtNextBackupButton LI(
172      {
173      REST_NextButtonSelect ();
174      }

```

```

175 /* */ CodeGen: MyNTHandler.EltsSelectTemplateBox */
176
177 /* (( CodeGen: MyNTHandler.EltsSelectTemplateBox */
178 static void C_FAR RestoreRestoreWin.EltsSelectTemplateBox L2(
179     RestoreRestoreWinPtr win, CBoxEltsSelectDefNYCPtr info)
180 {
181     RST_UpdateTemplateFromBoxes ();
182 }

```

```

182 /* */ CodeGen: MyNTHandler.EltsSelectTemplateBox */
183
184 static Boolean S_TemplateSelectProc (Str selectDefStr)
185 {
186     RST_UpdateTemplateFromBoxes ();
187     return (BOOL_TRUE);
188 }
189

```

```

191 static void C_PAR_S_TemplateBoxNfy L2(
192     { CBoxPter, cbox, CBoxNfyEnum, code)
193     { CUTIL_CBox_DeNfy (cbox, code, S_TemplateSelectProc);
194     }

```

```

196 /* (( CodeGen: nfyCylHandler EltSelectedPrimaryBox
197 static void C_PAR_RestoreRestoreWin_EltSelectedPrimaryBox L2(
198     RestoreRestoreWinPter, win, CBoxEltSelectedNfyCPtr, info)
199     REST_UpdateTemplateFromBoxes ();
200 }

```

```
203 /* ) CodeGen: ngntHandler ElseSelectPrimaryBox */
/* ( CodeGen: ngntHandler ValidateUnkTb
204 static void C_PAR RestorRestorWin.ValidateUnkTb (
205 1 { RestoreRestorWinPtr, win)
206 }
```

```
207 /* ) CodeGen: ngntHandler ValidateUnkTb */
/* ( CodeGen: ngntHandler CellStringBackupListBox
208 static void C_PAR RestorRestorWin.CellStringBackupListBox (
209 1 { RestoreRestorWinPtr, win, lBoxStringPtr, lBox)
210 }
```

```

213 /* )) CodeGen: WgNtHandler CellistingBackupListBox */
215 /* (( CodeGen: WgNtHandler ValidateBackupListBox */
216 static void C_PAR RestoreRestoreWin_ValidateBackupListBox 11(
217 {
218     RestoreRestoreWinPtr, win)

```

```

219 /* )) CodeGen: WgNtHandler ValidateBackupListBox */
221 /* (( CodeGen: WgNtHandler HitSearchButton */
222 static void C_PAR RestoreRestoreWin_HitSearchButton 11(
223 {
224     REST_Disp]aySearch ();
225 }

```

```
226 /* */) Codegen: MyCMyHandler HitMarkButton */
228 /* (( Codegen: MyCMyHandler HitMarkButton */
229 static void C_FAR RestoreRestoreWin_HitMarkButton L1(
RestoreRestoreWinPtr, win)
230 {
231     REST_MarkBackupsItems ();
232 }
```

```
233 /* */) Codegen: MyCMyHandler HitMarkButton */
235 /* (( Codegen: MyCMyHandler HitMarkButton */
236 static void C_FAR RestoreRestoreWin_HitMarkButton L1(
RestoreRestoreWinPtr, win)
237 {
238     REST_UnmarkBackupsItems ();
239 }
```



```

240 /* )) CodeGen: WgntyHandler HltNameSortBution */
241 /* (( CodeGen: WgntyHandler HltNameSortBution */
242 static void C_PAR RestoreRestoreWin_HltNameSortBution 11(
243     RestoreRestoreWinInftr, win)
244 {
245     REST_SetSort (REST_ByType);
246 }

```

```

247 /* )) CodeGen: WgntyHandler HltNameSortBution */
248 /* (( CodeGen: WgntyHandler HltNameSortBution */
249 static void C_PAR RestoreRestoreWin_HltNameSortBution 11(
250     RestoreRestoreWinInftr, win)
251 {
252     REST_SetSort (REST_ByName);
253 }

```

```

254 /* */ CodeGen: MgrMyHandler HitNamesSortBution
255 /* */
256 /* (( CodeGen: MgrMyHandler HitNamesSortBution
257 static void C_PAK RestoreRestoreWin_HitNamesSortBution LI(
258 {
259     REST_SetSort (REST_ByOwner);
260 }

```

```

261 /* */ CodeGen: MgrMyHandler HitNamesSortBution
262 /* */
263 /* (( CodeGen: MgrMyHandler HitNamesSortBution
264 static void C_PAK RestoreRestoreWin_HitNamesSortBution LI(
265 {
266     REST_SetSort (REST_BySize);
267 }

```

```

268 /* */ CodeGen: MyNfyHandler HidesSortButton
269
270 /* ( ( CodeGen: MyNfyHandler HidesSortButton
271 static void C_PAN RestoreRestoreWin_HidesSortButton 21(
272     RestoreRestoreWinPer, win)
273 {
274     REST_SetSort (REST_ByDate);
275 }

```

```

275 /* */ CodeGen: MyNfyHandler HidesSortButton
276
277 /* ( ( CodeGen: MyNfyHandler HidesSortButton
278 static void C_PAN RestoreRestoreWin_HidesSortButton 21(
279     RestoreRestoreWinPer, win)
280 {
281     REST_ShowIdempiles = TRUE; GetSelected ((TRUEPer)win->HidesSortButton);
282     REST_UpdateViewOptions ();
283 }

```

```

283      /* */ CodeGen: MyWMyHandler HiCkBadF1esButton          */
285      /* (( CodeGen: MyWMyHandler HiCkBadF1esButton          */
286      static void C_FAR RestoreRestoreWin_HiCkBadF1esButton L1(
287      {
288      REST_ShowBadF1es = TRU1_GetSelected (TRUcPtr win->BadF1esButton);
289      REST_UpdateViewOptions ();
290      }

```

```

291      /* */ CodeGen: MyWMyHandler HiCkBadF1esButton          */
293      /* (( CodeGen: MyWMyHandler HiCkBadF1esButton          */
294      static void C_FAR RestoreRestoreWin_HiCkBadF1esButton L1(
295      {
296      REST_MarkBadF1es = TRU1_GetSelected (TRUcPtr win->MarkBadF1esButton);
297      }

```

```

298 /* ) CodeGen: MgrNotifyHandler HlChkRxdButon */
/* ( CodeGen: MgrNotifyHandler ValidateRestoreItemsTarea */
300 static void C_PAR RestoreRestoreWIn_VaIdateRestoreItemsTarea Ll {
302     { RestoreRestoreWInPr. win)
303     }

```

```

304 /* ) CodeGen: MgrNotifyHandler ValidateRestoreItemsTarea */
/* ( CodeGen: MgrNotifyHandler ValidateRestoreSizeTarea */
306 static void C_PAR RestoreRestoreWIn_VaIdateRestoreSizeTarea Ll {
307     { RestoreRestoreWInPr. win)
308     {
309     }

```

```
310 /* )) Codexen: MgrtVfyHandler ValidateRestoreSizetArea */
311 /* (( Codexen: MgrtVfyHandler ValidateBadFileText */
312 static void C_PAR RestoreRestoreWin_VValidateBadFileText t1(
313     RestoreRestoreWinPPr, win)
314 {
315 }
```

```
316 /* )) Codexen: MgrtVfyHandler ValidateBadFileText */
317 /* (( Codexen: MgrtVfyHandler HitRemoveButton */
318 static void C_PAR RestoreRestoreWin_HitRemoveButton t1(
319     RestoreRestoreWinPPr, win)
320 {
321     REST_RemoveSelectedItems ();
322 }
```

```

323      /* )) Codegen: MgcKryHandler HiClearButton */
324
325      /* (( Codegen: MgcKryHandler HiClearButton */
326      static void C_PAR RestoreRestoreWin_HiClearButton 11(
327      {
328      REST_RemoveAllIssectItems ();
329      }

```

```

330      /* )) Codegen: MgcKryHandler HiCloseButton */
331
332      /* (( Codegen: MgcKryHandler HiCloseButton */
333      static void C_PAR RestoreRestoreWin_HiCloseButton 11(
334      {
335      WIN_Terminate (WinPer)win);
336      }

```

```

337 /* */ CodeGen: WgWtHandler HitClassButton
338
339 /* (( CodeGen: WgWtHandler HitStartButton
340 static void C_PAR RestoreRestoreWin_HitStartButton IL(
341 1 { RestoreRestoreWinInfr. win)
342 1 RST_StartRestore() ;
343 }

```

```

344 /* */ CodeGen: WgWtHandler HitStartButton
345
346 static WgWtHandler FocusWgt;
347 static void C_PAR RestoreRestoreWin_FocusWgtButton IL(
348 1 { FocusWgt = PANEL_GetFocusWgt ((PanelPtr)WGT_GetWin((WgWtPtr)
349 1 { RestoreRestoreWinInfr. win)
350 1 win->HitButton));
351 }

```



```
353 /* ( CodeGen: MyCfyHandler HtcheJpbluton */
354 static void C_PAR RestoreRestoreWin_HtcheJpbluton 11(
    RestoreRestoreWinPtr, win)
355 {
356     REST_DisplayContextHelp (LocumMyC);
357 }
```

```
358 /* ( CodeGen: MyCfyHandler HtcheJpbluton */
359 /* ( CodeGen: MyCfyHandler ValidatBackUpdateText */
360 static void C_PAR RestoreRestoreWin_ValidatBackUpdateText 11(
    RestoreRestoreWinPtr, win)
361 {
362     REST_DisplayContextHelp (LocumMyC);
363 }
```

```
364 /* )) CodeGen: MgrMfHandler ValidateBackupDataText */
365 /* (( CodeGen: MgrMfHandler HitViewOptionsTab */
366 static void C_FAR RestoreRestoreWin_HitViewOptionsTab II(
367 /*
368 1 { RestoreRestoreWinPr. win)
369 }
```

```
370 /* )) CodeGen: MgrMfHandler HitViewOptionsTab */
371 /* (( CodeGen: MgrMfHandler HitMxSummaryTab */
372 static void C_FAR RestoreRestoreWin_HitMxSummaryTab II(
373 /*
374 1 { RestoreRestoreWinPr. win)
375 }
```

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L2	L1
File Jan 04 14:31:46 2008	File Jan 04 14:31:46 2008
<pre> 376 /*)) CodeGen: MyNTFHandler HiMarkSummaryTab */ 378 /* ((CodeGen: MyNTFHandler CallStringSelectedListBox */ 379 static void C_PAR RestoreRestoreWin CallStringSelectedListBox L2 (RestoreRestoreWinPtr, win, listBoxIntPtr, lbs) 380 { 381 }</pre>	<pre> 382 /*)) CodeGen: MyNTFHandler CallStringSelectedListBox */ 384 /* ((CodeGen: MyNTFHandler ValidateSelectedListBox */ 385 static void C_PAR RestoreRestoreWin ValidateSelectedListBox L1 (RestoreRestoreWinPtr, win) 386 { 387 }</pre>
Page 75 of 444	Page 76 of 444
restore.c 39	restore.c 40
File Jan 04 14:31:46 2008	File Jan 04 14:31:46 2008

```
388 /* */ CodeGen: WgMgYHandler ValidateSelectedListBox */
389
390 /* (( CodeGen: WgMgYHandler HitMediaTab */
391 static void C_PVR RestoreRestoreWin_HitMediaTab 11(
392     /* */
393     RestoreRestoreWinPtr, Win)
394 }
```

```
394 /* */ CodeGen: WgMgYHandler HitMediaTab */
395
396 /* (( CodeGen: WgMgYHandler CellStringMediaListBox */
397 static void C_PVR RestoreRestoreWin_CellStringMediaListBox 12(
398     /* */
399     RestoreRestoreWinPtr, Win, lBoxStringPtr, lBox)
400 }
```

```
400 /* )) CodeGen: MyCtrlHandler CxList::mMedialistBox */
402 /* (( CodeGen: MyCtrlHandler ValidateMedialistBox */
403 static void C_PAR RestoreRestoreWin_VValidateMedialistBox 11(
404 {
405 }
RestoreRestoreWinPctr, win)
```

```
406 /* )) CodeGen: MyCtrlHandler ValidateMedialistBox */
408 /* (( CodeGen: MyCtrlHandler ValidatePathBox */
409 static void C_PAR RestoreRestoreWin_VValidatePathBox 11(
410 {
411 }
RestoreRestoreWinPctr, win)
```

```

412 /* )) Codegen: MycKyHandler ValidatePatches */
413
414 /* (( Codegen: MycKyHandler HtAlLowPartialButton */
415 static void C_FAR RestoreRestoreWin_HtAlLowPartialButton L1(
416     /* )) Codegen: MycKyHandler HtAlLowPartialButton L1 */
417     RestoreRestoreWinPcr, win)

```

```

418 /* )) Codegen: MycKyHandler HtAlLowPartialButton */
419
420 /* (( Codegen: MycKyHandler HtAlLowPartialButton */
421 static void C_FAR S_PathTernary L2(Teaper, ted, TERNyenum, code)
422 {
423     /* If this is a keyboard character, and it is a return,
424         set the view */
425     if ((code == TERN_KEYCHAR) &&
426         (code == TERN_RETURN) ||
427         (code == TERN_ENTER)) {
428         {
429             EVENT_GetKeyCode() == EVENT_KEYENTER))
430             REST_SetViewToPath ();
431         }
432     }
433     /* Else, let the utilities do their thing */
434     else
435     {
436         GUTL_TED_Defnfy (ted, code);
437     }
438 }

```


Page 87 of 444	L1	Fri Jan 04 14:31:46 2008
<pre>575 1 WIN_RemoveMenuItemHandler((WinPtr)win, 576 1 WmGetMenuItemByPositionTab, 577 1 (WinPtr)win); 578 1 WIN_RemoveMenuItemHandler((WinPtr)win, 579 1 WmGetMenuItemByMenuSummaryTab, 580 1 (WinPtr)win->MenuSummaryTab, 581 1 WIN_RemoveMenuItemHandler((WinPtr)win, 582 1 WmGetMenuItem, 583 1 TBMU_MENUITEM, 584 1 WIN_RemoveMenuItemHandler((WinPtr)win, 585 1 WmGetMenuItemByPathTab, 586 1 TBMU_MENUITEM, 587 1 TBMU_MENUITEM); 588 1 WIN_RemoveMenuItemHandler((WinPtr)win, 589 1 WmGetMenuItemByPathTab, 590 1 TBMU_MENUITEM, 591 1 TBMU_MENUITEM); 592 1 593 1 594 1 595 1 596 1 597 1 598 1 599 1 600 1 601 1 602 1 603 1 604 1 605 1 606 1 607 1 608 1 609 1 610 1 611 1 612 1 613 1 614 1 615 1</pre>	<pre>617 void 618 1 { 619 1 RestoreRestoreWinInPtr win; 620 1 (void)RtlE_LoadByFile("restore", "restore.dat"); 621 1 622 1 win = (RestoreRestoreWinInPtr)WIN_LoadSized(623 1 sizeof(RestoreRestoreWinInPtr)); 624 1 RestoreRestoreWinInPtrConstruct(win); 625 1 626 1 REST_RestoreWin = win; 627 1 628 1 WIN_Init((WinPtr)win); 629 1 630 1 631 1 632 1 633 1 634 1 635 1</pre>	
<pre>/* Setup the path widget to use the utilities */ OTED_SetDefaults((TEDPtr)win->PathTED, TED_Alpha, GMAX_PATHNAME_LENGTH, 0, STR_STD_FILENAME); WIN_SetMenuItemHandler((WinPtr)win, { WmGetWin->HelpButton, TBMU_NFYGAINFOCUS, WinMenuItemHandlerProc)RestoreRestoreWin_FocusHelpButton); }</pre>		
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```

642 static void REST_PrintUsageAndExit (SET command,
643                                     SET invalidOption)
644 {
645     /* Print out the bad option if one was given */
646     if (invalidOption != NULL)
647     {
648         STR_printf ("%s: bad command line option '%s'\n\n",
649                     command,
650                     invalidOption);
651     }
652     /* Print out the usage */
653     STR_printf (
654         "\n\nwhere options include:\n\t-help\t\t\tPrint out this
        message\n\t-display displayname\t\tCX server to contact\n\n",
        command);
655     fflush(stderr);
656     fflush(stdout);
657     _exit(0);
658 }

```

```

652 /* )) Codegen: WindowSection RestoreWin
653 /* (( Codegen: WindowImplementationPlaceholder ))
654 /* (( Codegen: MainSection
655 /* =====
656 /* == Code for Main
657 /* =====
658 #include <stdio.h>
659
660 ERR_DECLARE
661
662 /* "main()" encryptoint
663 /*
664 /* =====
665 /* main
666 /*
667 /* Description:
668 /* This is the main routine, it will begin the restore process.
669 /*
670 /* Parameters:
671 /* argc (I) - The count of the command line arguments.
672 /* argv (I) - The string list of the command line arguments.
673 /*
674 /* Returns:
675 /* None.
676 /* =====
677
678 int main (int, argc, char**, argv)
679 {
680     int i; /* Loop counter */
681     Boolean traceOn = BOOL_FALSE; /* Flag if tracing should be turned on */
682     char *displayString; /* String for DISPLAY env variable */
683     int nKey = 0; /* Number of keys */
684     int key1; /* First Key */
685     int key2; /* Second Key */
686     int inputQ; /* Shared help queue for input */
687     int outputQ; /* Shared help queue for output */
688     Boolean usingIPC = BOOL_FALSE; /* Flag if we are talking with main view */
689     Boolean sharedHelp = BOOL_FALSE; /* Flag if sharing help with main view */
690     Boolean synchornize = BOOL_FALSE; /* Flag if we should run in X sync mode */
691     char *message; /* Message to send to main view */
692     int rcHandle handle; /* Handle to come to main view */
693     Boolean setColors = BOOL_FALSE; /* pass/fail status of ipc connection */
694     int colorStr; /* Flag if user specified color scheme */
695     SET

```



```

827 1 {
828 2     }
829 2     }
830 2     }
831 2     else
832 3     {
833 3         REST_PrintUsageAndExit (basename(argv[0]), argv[1]);
834 3     }
835 1     }
836 1     }
837 1     /* Check the initial Environment */
838 1     GUTIL_CheckEnv(argv[0]);
839 1     }
840 1     /* default initialization */
841 1     ERR_Minimize();
842 1     ERR_ModuleUse();
843 1     }
844 1     /*
845 1     */
846 1     /*
847 1     */
848 1     NO_Init (argc, argv);
849 1     }
850 1     /* Initialize the utilities */
851 1     GUTIL_Initialize ();
852 1     }
853 1     /* Install the generic signal handlers */
854 1     GUTIL_AddGenericSignal (GUTIL_SignalHandlerProc) REST_SignalHandler();
855 1     }
856 1     /* Initialize the use of RDCs in this process */
857 1     GUTIL_InitializeRVC ();
858 1     }
859 1     /* If there are arguments after the -color */
860 1     if (argc > 1)
861 1     {
862 1         colorSet = GUTIL_ReadRcFile (colorStr, BOOL_TRUE);
863 1     }
864 1     /* If there wasn't an argument or if the read failed */
865 1     if (colorSet != RESOURCE_FILE_OK)
866 1     {
867 1         GUTIL_ReadRcFile ("", BOOL_TRUE);
868 1     }
869 1     /* Set the defaults to cover people who don't set correctly */
870 1     GUTIL_SetDefaultsToDefaults (BOOL_TRUE);
871 1     }
872 1     /* See the running directory */
873 1     GUTIL_SetRunningDirectory (basename (argv[0]));
874 1     }
875 1     /* Never, I mean NEVER, let the user see OpenLook (yuk!) */
876 1     if (GUTIL_GetLook () == DISPLAY_LOOKOPENLOOK)
877 1     {
878 1         GUTIL_SetLook (DISPLAY_LOOKOPENLOOK);
879 1     }
880 1     /* Initialize the restore components */
881 1     REST_Initialize ();
882 1     }
883 1     /* Show the about box while initializing if not from edm */
884 1     if (!usingIPC)
885 1     {
886 1         ABOUT_DisplayBanner (NULL);
887 1     }
888 1     EVENT_Update ();
889 1     }
890 1     /* Otherwise, show an initializing message */
891 1     else
892 1     {
893 1         synchronize = GALENT_DisplaySynchronizeWait (NULL,
894 1             REST_GetZirconString ("REST_INIT_TITLE"),
895 1             REST_INIT_TITLE);
896 1     }
897 1     }
898 1     }
899 1     }
900 1     }
901 1     }
902 1     }
903 1     }
904 1     }
905 1     }
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994 1     }
995 1     }
996 1     }
997 1     }
998 1     }
999 1     }

```

```

891 2     }
892 2     }
893 2     }
894 2     }
895 1     }
896 1     }
897 1     }
898 1     }
899 1     }
900 1     }
901 1     }
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998 1     }
999 1     }

```

```

957 1      /* If synchronous mode, set mode */
958 1      if (synchronize)
959 2      {
960 2          Xsynchronize (&DispExy(), BOOL_TRUE);
961 2      }
962 1      /* If tracing is on */
963 1      if (tracoon)
964 1      {
965 2          /* start with everything */
966 2          TRACESETFLAG(V_TRACE_EVERYTHING)
967 2      }
968 2      /* start tracing */
969 2      TRACESTART
970 2      TRACESTARTFILEIO
971 2      TRACESTARTFILEIO
972 2      /* Display the trace controls window */
973 2      TRACEOFCONTROLS
974 2      }
975 1      /* If we are talking with mainview, tell it we're up */
976 1      if (usingIPC)
977 2      {
978 2          status = ipcOpen (&handle, key1, key2);
979 2          if (handle != NULL) && (status != IPCL_FAILURE)
980 2          {
981 2              message = (char *) GUTTL_MALLOC(strlen(IPC_CONNECT_STRING) + 1);
982 2              strcpy (message, IPC_CONNECT_STRING);
983 2              ipcSendMessage (&handle,
984 2                  IPC_CONNECT_STRING,
985 2                  IPCL_NOWAIT,
986 2                  1,
987 2                  message,
988 2                  strlen(IPC_CONNECT_STRING) + 1);
989 2          }
990 2          GUTTL_Free (message);
991 2      }
992 1      /* Display the restore window */
993 1      REST_Display ();
994 1      /* If we are sharing help with mainview,
995 1      talk to the already running help */
996 1      if (shardhelp)
997 2      {
998 2          EDWHELP_InitQueues (inputQ, outputQ);
999 2      }
1000 2      /* Remove the about box */
1001 2      if (!usingIPC)
1002 2      {
1003 2          ABOUT_TerminateWin ();
1004 2          EVENT_Update ();
1005 2      }
1006 2      else if (synchronize != NULL)
1007 2      {
1008 2          GALENT_CancelSynchronizing (synchronize);
1009 2          EVENT_Update ();
1010 2      }
1011 2      /* Put up the window */
1012 2      WIN_Show(WinPer)REST_RestoreWin();
1013 2      /* Begin the event processing */
1014 2      NO_Run();
1015 1
1016 1
1017 1
1018 1
1019 1

```

```

1021 1      /* OK, we're outta here! Clean up and go home
1022 1      */
1023 1      /* Close help */
1024 1      EDWHELP_End ();
1025 1      /* default termination */
1026 1      NO_Exit ();
1027 1      /* Exit the process */
1028 1      return EXIT_OK;
1029 1
1030 1
1031 1
1032 1
1033 1

```

1034 /* */) CodeDom: MainSection

1035 /* ((CodeDom: MainPlaceHolder))

*/

*/


```

132 2 {
133 2     EDMRST_IsObjIsMarked (serverHandle,
134 2         i,
135 2         kObjIsMarked,
136 2         kObjIsMarked,
137 2         kObjIsMarked);
138 2     }
139 2     return (iIsMarked);
140 1 }
141

```

```

143 //*****
144 * RST_DisplayBackupDate
145 * Description:
146 * This routine will display the current backup date and set the
147 * date buttons to their correct states.
148 *
149 * Parameters:
150 * None.
151 * Returns:
152 * None.
153 *
154 * *****
155
156 void RST_DisplayBackupDate (void)
157 {
158     Char dateString(GMAX_OBJECT_LENGTH); /* Date to display */
159     time_t thisTime; /* Current backup time */
160     /* Error status */
161     errno_t errno;
162
163     /* Get the current backup time */
164     if ((errno = EDMRST_GetCurrentBackupTime(
165         GREST_Handle, &thisTime)) == E_SUCCESS)
166     {
167         /* Print the time and date to the date string */
168         sprintf (dateString, "%s", RST_GetTimeDateString (thisTime));
169     }
170     else
171     {
172         /* Couldn't get a backup time, must not have a work item yet */
173         sprintf (dateString, "");
174         thisTime = 0;
175     }
176
177     /* Set the date text label */
178     TED_SetStr ((TEDPtr)RST_ReactorWin->BackupDateText, dateString);
179
180     /* Update the sensitivity of the date buttons */
181     RST_UpdateDateButtons ();
182 }

```

```

186 //.....
187 * REST_UpdateBackupDate
188 *
189 * Description:
190 * This routine will update the current work item and the displayed
191 * date after a date change.
192 *
193 * Parameters:
194 * None.
195 *
196 * Returns:
197 * None.
198 *
199 *.....*/
200 void REST_UpdateBackupDate (void)
201 {
202     /* Ping that we are updating the backup date */
203     updatingDate = BOOL_TRUE;
204     /* Re-read the current work item */
205     REST_ReadWorkItem (currentWorkItemInfo);
206     /* Display the new backup date */
207     REST_DisplayBackupDate ();
208     /* Ping that we are no longer updating the backup date */
209     updatingDate = BOOL_FALSE;
210 }

```

```

217 //.....
218 * REST_UpdateBackupTemplates
219 *
220 * Description:
221 * This routine will update the template and trailer boxes
222 * to the current choices available.
223 *
224 * Parameters:
225 * Info (I) - Work-Item info record to get the templates for
226 *
227 * Returns:
228 * None.
229 *
230 *.....*/
231 void REST_UpdateBackupTemplates (ResourceInfoTr info)
232 {
233     template_name_ty currentTemplate;
234     template_name_ty templates[TEMPLATE_BUFFER_LENGTH];
235     /* New templates */
236     Booleanum failIterates;
237     Booleanum exists = BOOL_FALSE;
238     Booleanum currentFound = BOOL_FALSE;
239     long cookie = INIT_COOKIE;
240     short numStrixes;
241     Int i;
242     eerrno_ty eerrno;
243     /* Validate the object passed in */
244     if ((info != NULL) &&
245         (info->type == REST_WorkItem) &&
246         (info->resourceObject != NULL))
247     {
248         /* First, clear out any old templates */
249         CBOX_GetFirst(REST_RestoreWin->templateBox);
250         while (CBOX_IsOK (REST_RestoreWin->templateBox))
251         {
252             CBOX_GetFirst (REST_RestoreWin->templateBox);
253             CBOX_RemoveElem (REST_RestoreWin->templateBox);
254         }
255         /* get the current template */
256         if (EIMRST_GetCurrentTemplate
257             (&currentTemplate,
258              &failIterates) != E_SUCCESS)
259         {
260             STR_Copy (currentTemplate, "");
261             failIterates = BOOL_FALSE;
262         }
263         /* Get all the templates for the new work item */
264         while (cookie != DONE_COOKIE)
265         {
266             numStrixes = 0;
267             if (eerrno == EIMRST_GetTemplateTemplates (REST_Handle,
268                                                         info->resourceObject,

```

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273 3			
274 3		TEMPLATE_BUFFER_LENGTH,	
275 3		len(buffer),	
276 3		acookie)) ==	
		E_SUCCESS)	
277 4	{		
279 4	/* Add each entry to the template box */		
280 4	CBXOX_GoFirst(REST_RestoreWin->templateBox);		
281 4	for (i=0; i<numEntries; i++)		
282 5	{		
283 5	CBXOX_CurAddIdel (REST_RestoreWin->templateBox, {		
284 5	CBXOX_CurSetLabel (
	REST_RestoreWin->templateBox, template[i]);		
286 5	/* If this is the current template, select it */		
287 5	if (strcmp(template[i], currentTemplate) == CMP_EQUAL)		
288 6	{		
289 6	REST_SelectCurrentTemplate (i);		
290 6	currentFound = BOOL_TRUE;		
291 5	}		
292 5	CBXOX_GoNext (REST_RestoreWin->templateBox);		
293 4	}		
295 4	if (!currentFound) && (strcmp (
296 5	currentTemplate, "") != CMP_EQUAL)		
297 5	{		
	CBXOX_CurAddIdel (REST_RestoreWin->templateBox, (
	ClientPer)NULL;		
	CBXOX_CurSetLabel (
	REST_RestoreWin->templateBox, currentTemplate);		
298 5	REST_SelectCurrentTemplate (i);		
299 5	numEntries++;		
300 5	currentFound = BOOL_TRUE;		
301 5	}		
302 4	}		
304 4	/* If we didn't find it (
	probably no savesets) select the first */		
305 4	if (!currentFound) && (numEntries > 0))		
306 5	{		
307 5	CBXOX_GoFirst (REST_RestoreWin->templateBox);		
308 5	REST_SelectCurrentTemplate (i);		
309 4	}		
310 3	}		
311 3	else		
312 4	{		
	/* At least add the current template */		
313 4	if (strcmp (currentTemplate, "") != CMP_EQUAL)		
314 5	{		
	CBXOX_CurAddIdel (REST_RestoreWin->templateBox, (
	ClientPer)NULL;		
315 5	CBXOX_CurSetLabel (
	REST_RestoreWin->templateBox, currentTemplate);		
	REST_SelectCurrentTemplate (i);		
316 5	}		
317 5	}		
318 5			
319 4	}		
321 4	/* Just get out */		
322 4			
323 3	cookie = DONE_COOKIE;		
324 2	}		
325 2			
326 2	/* Print, clear out any old trails: */		
327 2	CBXOX_GoFirst (REST_RestoreWin->templateBox);		
328 2	while (CBXOX_IsBox (REST_RestoreWin->PrimaryBox))		
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329 3	{		
330 3	CBXOX_GoFirst (REST_RestoreWin->PrimaryBox);		
331 3	CBXOX_CurMoveOverIdel (REST_RestoreWin->PrimaryBox);		
332 2	}		
334 2	/* Add the primary trail (always exists) */		
335 2	CBXOX_GoFirst (REST_RestoreWin->PrimaryBox); (ClientPer)NULL;		
336 2	CBXOX_CurAddIdel (REST_RestoreWin->PrimaryBox, (
337 2	ClientPer)NULL;		
338 2	CBXOX_CurSetLabel (REST_RestoreWin->PrimaryBox,		
339 2	(strcmp (STRL_GetClientStr (REST_PrimaryNameList,		
340 2	STRL_GetClientStr (REST_PrimaryTrail_Index));		
342 2	CBXOX_CurSetId (REST_RestoreWin->PrimaryBox, 1);		
343 2			
344 2	/* Add the alternate trail if it exists */		
345 2	if (REST_DoesAlternateExist (REST_Handle,		
346 2	Info->restoreObject,		
347 2	template,		
348 3	if (exists)		
	{		
349 3	CBXOX_GoNext (REST_RestoreWin->PrimaryBox);		
350 3	CBXOX_CurAddIdel (REST_RestoreWin->PrimaryBox, (ClientPer)NULL;		
351 3	CBXOX_CurSetLabel (REST_RestoreWin->PrimaryBox,		
352 3	(strcmp (STRL_GetClientStr (REST_TrailNameList,		
353 3	STRL_GetClientStr (REST_Trail_Index));		
354 3	REST_ALTERNATE_TRAIL_INDEX));		
355 2	CBXOX_CurSetId (REST_RestoreWin->PrimaryBox, 2);		
356 2	}		
357 2	/* Show whether or not it is the alternate */		
358 2	CBXOX_GoFirst (REST_RestoreWin->PrimaryBox);		
359 2	if (IsAlternate)		
360 3	{		
361 3	CBXOX_GoNext (REST_RestoreWin->PrimaryBox);		
362 2	REST_SelectCurrentTrail (i);		
363 2			
364 1	}		
367	}		
Page 108 of 444		restmg.c 8	Fri Jan 04 14:31:46 2008

```

359  /*****
360  * REST_UpdateChildMarks
361  */
362
363  * Description:
364  * This routine will update the marked flag for all children and
365  * recursively for their children for the given object.
366
367  * Parameters:
368  *   parentObj (I) - The object whose children need to be updated
369  * Returns:
370  *   None.
371  *****/
372
373  void REST_UpdateChildMarks (RestoreInfoPtr parentObj)
374  {
375  RestoreInfoPtr tmpInfo; /* Info to walk the list with */
376  unsigned long numChecked;
377
378  /* Validate the input */
379  if (parentObj == NULL)
380  {
381  /* Walk the children list */
382  tmpInfo = parentObj->children;
383  while (tmpInfo != NULL)
384  {
385  /* Determine if this object is marked */
386  if (tmpInfo->restoreObj != NULL)
387  {
388  tmpInfo->marked = GREST_IsObjectMarked (GREST_Handle,
389  tmpInfo->restoreObj);
390  }
391  }
392
393  /* Update the marks for the children of this object */
394  REST_UpdateChildMarks (tmpInfo);
395
396  /* Go to the next child */
397  tmpInfo = tmpInfo->next;
398
399  }
400
401 }
402
403
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```

```

412  /*****
413  * REST_UpdateObjectMarks
414  */
415
416  * Description:
417  * This routine will update the marked flag the given object and
418  * all its children.
419
420  * Parameters:
421  *   parentObj (I) - The top level object whose children need to be updated
422  * Returns:
423  *   None.
424  *****/
425
426  void REST_UpdateObjMarks (RestoreInfoPtr parentObj)
427  {
428  RestoreInfoPtr nextChild;
429
430  BoolEnum allMarked = BOOL_TRUE; /* Flag if all children are marked */
431
432  /* Validate the input */
433  if (parentObj == NULL)
434  {
435  /* Determine if this object is marked */
436  if (parentObj->restoreObj != NULL)
437  {
438  parentObj->marked = GREST_IsObjectMarked (GREST_Handle,
439  parentObj->restoreObj);
440  }
441
442  /* Update the marks for the children of this object */
443  REST_UpdateChildMarks (parentObj);
444
445  /* See if the entire workitem is marked */
446  if (currentWorkItemInfo != NULL)
447  {
448  nextChild = currentWorkItemInfo->children;
449  while (allMarked && (nextChild != NULL))
450  {
451  if ((nextChild->marked)
452  {
453  allMarked = BOOL_FALSE;
454  }
455  }
456  }
457  else
458  {
459  nextChild = nextChild->next;
460  }
461  }
462  currentWorkItemInfo->marked = allMarked;
463
464  }
465

```

Page 111 of 444	REST_ClearChildMarks	Fri Jan 04 14:31:46 2008	Page 112 of 444	REST_ClearObjectMarks	Fri Jan 04 14:31:46 2008
<pre>467 /***** 468 * REST_ClearChildMarks 469 * 470 * Description: 471 * This routine will clear the marked flag for all children and 472 * recursively for their children for the given object. 473 * 474 * Parameters: 475 * parentObject (I) - The object whose children need to be cleared 476 * 477 * Returns: 478 * None. 479 *****/ 480 481 void REST_ClearChildMarks (RestoreInfoPtr parentObject) 482 { 483 RestoreInfoPtr tmpInfo; /* Info to walk the list with */ 484 485 /* Validate the input */ 486 if (parentObject == NULL) 487 { 488 /* Walk the children list */ 489 tmpInfo = parentObject->children; 490 while (tmpInfo != NULL) 491 { 492 /* Clear the marked flag for this object */ 493 if (tmpInfo->marked) 494 { 495 tmpInfo->marked = BOOL_FALSE; 496 GPMGR_UpdateObject (REST_GetMgrContext(), { 497 GPMGR_Object(tmpInfo); 498 }); 499 } 500 501 /* If this object is in the selected list, remove it */ 502 if (REST_IsItemSelected (tmpInfo) && 503 (tmpInfo->RestoreObject != NULL)) 504 { 505 REST_DeselectInfo (tmpInfo->RestoreObject, 0); 506 } 507 508 /* Clear the marks for the children of this object */ 509 REST_ClearChildMarks (tmpInfo); 510 511 /* Go to the next child */ 512 tmpInfo = tmpInfo->next; 513 } 514 } 515 }</pre>	<pre>518 /***** 519 * REST_ClearObjectMarks 520 * 521 * Description: 522 * This routine will clear the marked flag for the given object 523 * and for all descendants of the given object. 524 * 525 * Parameters: 526 * parentObject (I) - The object whose children need to be cleared 527 * 528 * Returns: 529 * None. 530 *****/ 531 532 void REST_ClearObjectMarks (RestoreInfoPtr parentObject) 533 { 534 /* Validate the input */ 535 if (parentObject == NULL) 536 { 537 /* Clear the marked flag for this object */ 538 if (parentObject->marked) 539 { 540 parentObject->marked = BOOL_FALSE; 541 GPMGR_UpdateObject (REST_GetMgrContext(), { 542 GPMGR_Object(parentObject); 543 }); 544 545 /* If this object is in the selected list, remove it */ 546 if (REST_IsItemSelected (parentObject) && 547 (parentObject->RestoreObject != NULL)) 548 { 549 REST_DeselectInfo (parentObject, 0); 550 } 551 552 /* Clear the marks for the children of this object */ 553 REST_ClearChildMarks (parentObject); 554 555 /* Clear out any selection data */ 556 REST_ClearMarkedInfo (); 557 } 558 } 559 }</pre>				
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```

544  /*****
545  * REST_GetCurrentClientInfo
546  *
547  * Description:
548  *   This routine will return the current client object.
549  *
550  * Parameters:
551  *   None.
552  *
553  * Returns:
554  *   The current client object, or NULL if none.
555  *
556  *****/
557
558  /**************************************************************************/
559
560  RESTOREINFOPtr REST_GetCurrentClientInfo (void)
561  {
562  RESTOREINFOPtr returnInfo; /* Info to return */
563
564  /* If we are currently working with a work item,
565   * return it's parent */
566  if (currentWorkItemInfo != NULL)
567      returnInfo = currentWorkItemInfo->parent;
568  /* Else, there is no current client */
569  else
570      returnInfo = NULL;
571
572  /* Return the determined info */
573  return (returnInfo);
574  }

```

```

592  /*****
593  * REST_GetCurrentWorkItem
594  *
595  * Description:
596  *   This routine will return the current work-item restorable object.
597  *
598  * Parameters:
599  *   None.
600  *
601  * Returns:
602  *   The current work item object, or NULL if none.
603  *
604  *****/
605
606  /**************************************************************************/
607
608  GREST_Object REST_GetCurrentWorkItem (void)
609  {
610  GREST_Object returnObject; /* The work item object to return */
611
612  /* If we are currently looking at a work-item */
613  if (currentWorkItemInfo != NULL)
614  {
615      /* return the current work item object */
616      returnObject = currentWorkItemInfo->restorableObject;
617  }
618  else
619  {
620      /* return NULL */
621      returnObject = NULL;
622  }
623
624  return (returnObject);
625  }

```

```

624 /*****
625  * REST_CreateClientInfo
626  *
627  * Description:
628  *   This routine will create the data for the given client.
629  * Parameters:
630  *   clientName (I) - The name of the client
631  *
632  * Returns:
633  *   The allocated data for the given client.
634  *
635  *****/
636
637 RESTInfoPtr REST_CreateClientInfo (str clientName)
638 {
639     RESTInfoPtr newInfo;
640
641     /* Info created for client */
642     BUCFGPlatformType platformType = BUCFG_PLATFORM_UNKNOWN;
643     /* Platform type */
644
645     /* Create a new info record */
646     newInfo = (RESTInfoPtr) GUTIL_Malloc (sizeof(RESTInfoRec));
647     newInfo->parent = NULL;
648     newInfo->children = NULL;
649     newInfo->next = NULL;
650
651     /* Copy in the fields */
652     newInfo->name = eat_strdup (clientName);
653     newInfo->type = REST_Client;
654
655     /* Determine the platform type and get the appropriate icon
656     */
657     if (EBMRST_GetHostPlatformType (
658         GREST_Handle, clientName, eplatformType) == E_SUCCESS)
659     {
660         switch (platformType)
661         {
662             case BUCFG_PLATFORM_UNIX:
663                 newInfo->icon = GICON_GetIconBySize (I_UNIXCLIENT, ICON_SMALL);
664                 break;
665             case BUCFG_PLATFORM_OS2:
666                 newInfo->icon = GICON_GetIconBySize (I_OS2CLIENT, ICON_SMALL);
667                 break;
668             case BUCFG_PLATFORM_NETWORK:
669                 newInfo->icon = GICON_GetIconBySize (
670                     I_NETWORKCLIENT, ICON_SMALL);
671                 break;
672             case BUCFG_PLATFORM_AWT:
673                 newInfo->icon = GICON_GetIconBySize (
674                     I_WINNTCLIENT, ICON_SMALL);
675                 break;
676             case BUCFG_PLATFORM_VMS:
677                 newInfo->icon = GICON_GetIconBySize (I_VMSCLIENT, ICON_SMALL);
678                 break;
679             default:
680                 newInfo->icon = GICON_GetIconBySize (
681                     I_UNKNOWNCLIENT, ICON_SMALL);
682         }
683     }
684     else
685     {
686         newInfo->icon = GICON_GetIconBySize (I_UNKNOWNCLIENT, ICON_SMALL);
687     }
688 }

```

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```

```

694  /*.....
695  * REST_CreateErrorInfo
696  *
697  * Description:
698  *   This routine will create the data for an error object
699  *
700  * Parameters: (1) - The error string for the new object
701  *   existing (1) - The parent of the error object
702  *   parent (1) - The parent of the error object
703  * Returns:
704  *   The allocated data for the error object
705  *.....
706
707  RestoreInfoPtr REST_CreateErrorInfo (ISRT
708  RestoreInfoPtr parent)
709  {
710  RestoreInfoPtr newInfo; /* New info created for the error Object */
711
712  /* Create the new object */
713  newInfo = (RestoreInfoPtr) GUTIL_Malloc (sizeof(RestoreInfoRec));
714  newInfo->parent = parent;
715  newInfo->children = NULL;
716  newInfo->next = NULL;
717
718  /* Fill in the data fields */
719  if (existing != NULL)
720  {
721  newInfo->name = existing;
722  }
723  else
724  {
725  newInfo->name = NULL;
726  newInfo->type = REST_ErrorObject;
727  newInfo->marked = BOOL_FALSE;
728  newInfo->restoreObject = NULL;
729  newInfo->status = Backup_Good;
730  newInfo->backupTime = 0;
731  newInfo->errorString = NULL;
732
733  newInfo->icon = REST_FailedIcon;
734
735  /* Return the new object */
736  return (newInfo);
737  }

```

```

718  /*.....
719  * REST_CreateWorkItemInfo
720  *
721  * Description:
722  *   This routine will create the data for the give work item object.
723  *
724  * Parameters:
725  *   object (1) - The work item object.
726  *   parent (1) - The parent of the new object
727  * Returns:
728  *   The allocated data for the given work item.
729  *.....
730
731  RestoreInfoPtr REST_CreateWorkItemInfo (ISRT Object object,
732  RestoreInfoPtr parent)
733  {
734  RestoreInfoPtr newInfo; /* New info created for the WI Object */
735  char wType; /* Type of work item */
736  errno; /* Error code for failed workitem */
737
738  /* Create the new object */
739  newInfo = (RestoreInfoPtr) GUTIL_Malloc (sizeof(RestoreInfoRec));
740  newInfo->parent = parent;
741  newInfo->children = NULL;
742  newInfo->next = NULL;
743
744  /* Fill in the data fields */
745  newInfo->name = existing (EMRST_GetObjectFullName (
746  GREST_Handle, object));
747  newInfo->type = REST_WorkItem;
748  newInfo->opened = BOOL_FALSE;
749  newInfo->marked = BOOL_FALSE;
750  newInfo->restoreObject = object;
751  newInfo->backupTime = 0;
752  newInfo->errorString = NULL;
753
754  /* Determine which icon to use */
755  if (Type == REST_ErrorObject) (GREST_Handle, object);
756  if (wType == WI_TYPE_OFFLINE)
757  {
758  newInfo->icon = REST_DBWorItemIcon;
759  }
760  else
761  {
762  newInfo->icon = REST_FSWorItemIcon;
763  }
764
765  if (!REST_ValidateWorkItem (object, &errno))
766  {
767  newInfo->type = REST_FailedWorkItem;
768  newInfo->icon = REST_FailedWorkItemIcon;
769  newInfo->status = REST_FailedWorkItemIcon;
770  newInfo->errorString = existing (e.g., error_text (errno));
771  newInfo->children = REST_CreateErrorInfo (
772  newInfo->errorString, newInfo);
773  }
774
775  newInfo->status = Backup_Good;
776
777  /* Return the new object */
778  return (newInfo);
779  }

```



```

801  /*
802  * REST_CreateDirectoryInfo
803  */
804  * Description:
805  * This routine will create the data for the given directory object.
806  *
807  * Parameters:
808  *   object (I) - The directory object.
809  *   parent (I) - The parent of the new object
810  * Returns:
811  *   The allocated data for the given directory.
812  */
813  .....
814
815  RestoreInfoFor REST_CreateDirectoryInfo (GREST_Object object,
816  RestoreInfoFor parent)
817  {
818  RestoreInfoFor newInfo; /* New info created for the object */
819  1
820
821  /* Create the new object */
822  newInfo = (RestoreInfoFor) GUTIL_Malloc (sizeof(RestoreInfoRec));
823  1
824  newInfo->parent = parent;
825  1
826  newInfo->children = NULL;
827  1
828  /* Fill in the data fields */
829  1
830  newInfo->name = es1_strdup (EMRST_GetObjectBaseName (
831  GREST_Handle, object));
832  1
833  newInfo->type = REST_Directory;
834  1
835  newInfo->icon = REST_DirIcon;
836  1
837  newInfo->opened = BOOL_FALSE;
838  1
839  newInfo->marked = GREST_IsObjectMarked (GREST_Handle, object);
840  1
841  newInfo->status = EMRST_GetObjectStatus (GREST_Handle, object);
842  1
843  newInfo->backupTime = 0;
844  1
845  newInfo->errorString = NULL;
846  1
847  /* Return the new object */
848  1
849  return (newInfo);
850  1
851  }
852  1

```

```

862  /*
863  * REST_CreateFileInfo
864  */
865  * Description:
866  * This routine will create the data for the given file object.
867  *
868  * Parameters:
869  *   object (I) - The file object.
870  *   parent (I) - The parent of the new object
871  * Returns:
872  *   The allocated data for the given file.
873  */
874  .....
875
876  RestoreInfoFor REST_CreateFileInfo (GREST_Object object,
877  RestoreInfoFor parent)
878  {
879  RestoreInfoFor newInfo; /* New info created for the object */
880  1
881
882  /* Create the new object */
883  newInfo = (RestoreInfoFor) GUTIL_Malloc (sizeof(RestoreInfoRec));
884  1
885  newInfo->parent = parent;
886  1
887  newInfo->children = NULL;
888  1
889  newInfo->next = NULL;
890  1
891  /* Fill in the data fields */
892  1
893  newInfo->name = es1_strdup (EMRST_GetObjectBaseName (
894  GREST_Handle, object));
895  1
896  newInfo->type = REST_File;
897  1
898  newInfo->icon = REST_FileIcon;
899  1
900  newInfo->opened = REST_FALSE;
901  1
902  newInfo->marked = GREST_IsObjectMarked (GREST_Handle, object);
903  1
904  newInfo->status = EMRST_GetObjectStatus (GREST_Handle, object);
905  1
906  newInfo->backupTime = 0;
907  1
908  newInfo->errorString = NULL;
909  1
910  /* Return the new object */
911  1
912  return (newInfo);
913  1
914  }
915  1

```

```

883 /.....
884 * REST_AddChild
885
886 * Description:
887 * This routine will add a child to a parent in a non-sorted order.
888
889 * Parameters:
890 * parent (i) - The parent object
891 * child (i) - The new child object
892
893 * Returns:
894 * None.
895
896
897 void REST_AddChild (RestoreInfoPtr parent,
898                    RestoreInfoPtr child)
899 {
900     RestoreInfoPtr tmpInfo; /* Pointer used to walk the children */
901
902     if ((parent != NULL) && (child != NULL))
903     {
904         /* Add the new child to the list */
905         child->next = parent->children;
906         parent->children = child;
907     }
908 }
909
910

```

```

911 /.....
912 * REST_CopyInfo
913
914 * Description:
915 * This routine copy the info from the source object to the
916 * destination.
917 * If the source info is the current work-item, update the current
918 * work-item to the destination.
919
920 * Parameters:
921 * sourceInfo (i) - The object to copy from
922 * destinationInfo (i) - The object to copy to
923
924 * Returns:
925 * None.
926
927
928 void REST_CopyInfo (RestoreInfoPtr sourceInfo,
929                   RestoreInfoPtr destinationInfo)
930 {
931     if ((sourceInfo != NULL) && (destinationInfo != NULL))
932     {
933         /* NULL out the links */
934         destinationInfo->parent = NULL;
935         destinationInfo->children = NULL;
936         destinationInfo->next = NULL;
937
938         /* Copy each data field */
939         destinationInfo->name = strdup (sourceInfo->name);
940         destinationInfo->type = sourceInfo->type;
941         destinationInfo->id = sourceInfo->id;
942         destinationInfo->opened = sourceInfo->opened;
943         destinationInfo->restoredObject = sourceInfo->restoredObject;
944         destinationInfo->status = sourceInfo->status;
945         destinationInfo->backuptime = sourceInfo->backuptime;
946
947         /* If this was the current Wf, set it to the new version */
948         if (currentWorkItemInfo == sourceInfo)
949             currentWorkItemInfo = destinationInfo;
950     }
951 }
952

```

Page 123 of 444	REST_InitWorkItem	Fri Jan 04 14:31:46 2008	
995	.....	1009	/*.....
996	* REST_InitWorkItem	1010	* REST_GetMostRecentWorkTime
997	* Description:	1011	* Description:
998	* This routine will initialize a work-item. This can be used so that	1012	* This routine will get the most recent backup time for the given
999	* the Restore API will consider the work-item the current work-item	1013	* work-item in the given template with the given trail.
1000	* and the work-item routines can be called.	1014	
1001	* Parameters:	1015	* Parameters:
1002	* ParametersObject (I) - The work-item object to initialize.	1016	* ParametersObject (I) - The work-item object to get the time for.
1003	* ErrorCode (O) - The error code received if we can't init.	1017	* ParametersObject (I) - The template to use.
1004	* ErrorCode	1018	* IsAlternate
1005	* Returns:	1019	* I - Flag whether or not to use the alternate trail
1006	* BOOL.TRUE - If we successfully init'd the work-item.	1020	* Returns:
1007	* BOOL.FALSE - If we unsuccessfully init'd the work-item.	1021	* The time of the most recent backup, 0 if no backups exist.
	*****	1022	*****
973	Boolean REST_InitWorkItem (GREST_Object workItemObj,	1026	static time_t REST_GetMostRecentWorkTime (
974	GREST_Object *errorCode)	1027	GREST_Object workItemObj,
975	{	1028	template_name_t template,
976	long cookie = INIT_COOKIE; /* Ah, the magic cookie */	1029	Boolean
977	long numCookies = 0; /* Bogus value for object count */	1030	{
978	Boolean init = BOOL_FALSE; /* Flag if the init was successful */	1031	Boolean exists;
979		1032	/* Flag if this template/trail exists */
		1033	/* Error Status */
		1034	time_t
		1035	u_long
		1036	flags;
981	if (workItemObj != NULL)	1037	if (TRUE_GetSelected ((TRUE_GetRestoreIn->AllowPartialBackup))
982	{	1038	flags = BACKUP_SELECTION_FLAG_PARTIAL_OK;
983	if (EDMRST_AllocRestoreObj(objects, 1) == E_SUCCESS)	1039	flags = BACKUP_SELECTION_FLAG_COMPLETE_ONLY;
984	{	1040	/* If this is the alternate trail */
985	if (isAlternate)	1041	{
986	/* Attempt to get the object */	1042	/* Check if there is an alternate trail for this template */
987	if ((errorCode = EDMRST_GetRestoreObj(objects, GREST_Handle,	1043	EDMRST_DoesAlternateExist (
988	workItemObj,	1044	GREST_Handle, workItemObj, template, &exists);
989	BOOL.TRUE,	1045)
990	1,	1046	else
991	objects,	1047	{
992	numCookies++,	1048	/* Primary trails always exist */
993	errorCode) ==	1049	exists = BOOL_TRUE;
994	E_SUCCESS)	1050	
995	{	1051	
996	/* Successfully init'd the work-item */	1052	
997	init = BOOL_TRUE;	1053	/* Set to this template using the given trail */
998		1054	if ((exists) && (EDMRST_SetToPreviousTemplate (GREST_Handle,
999	/* Free up the object */	1055	template,
1000	EDMRST_FreeRestoreObj(objects, GREST_Handle, objects, 1);	1056	isAlternate) ==
1001	}	1057	E_SUCCESS))
1002		1058	{
1003		1059	/* Initialize the work-item */
1004		1060	if (REST_InitWorkItem (workItemObj, &error))
1005	/* Return whether or not we successfully init'd the work-item */	1061	{
1006	return (init);	1062	/* Get the most recent backup */
1007	}	1063	if (EDMRST_SetToRecentBackup (
		1064	GREST_Handle, flags) == E_SUCCESS)
		1065	{
		1066	/* Initialize the work-item for this time */
		1067	

Page 124 of 444	REST_GetMostRecentWorkTime	Fri Jan 04 14:31:46 2008	
1009	.....	1026	static time_t REST_GetMostRecentWorkTime (
1010	* REST_GetMostRecentWorkTime	1027	GREST_Object workItemObj,
1011	* Description:	1028	template_name_t template,
1012	* This routine will get the most recent backup time for the given	1029	Boolean
1013	* work-item in the given template with the given trail.	1030	{
1014		1031	Boolean exists;
1015	* Parameters:	1032	/* Flag if this template/trail exists */
1016	* ParametersObject (I) - The work-item object to get the time for.	1033	/* Error Status */
1017	* ParametersObject (I) - The template to use.	1034	time_t
1018	* IsAlternate	1035	u_long
1019	* I - Flag whether or not to use the alternate trail	1036	flags;
1020	* Returns:	1037	if (TRUE_GetSelected ((TRUE_GetRestoreIn->AllowPartialBackup))
1021	* The time of the most recent backup, 0 if no backups exist.	1038	flags = BACKUP_SELECTION_FLAG_PARTIAL_OK;
1022	*****	1039	flags = BACKUP_SELECTION_FLAG_COMPLETE_ONLY;
	*****	1040	/* If this is the alternate trail */
		1041	{
		1042	/* Check if there is an alternate trail for this template */
		1043	EDMRST_DoesAlternateExist (
		1044	GREST_Handle, workItemObj, template, &exists);
		1045)
		1046	else
		1047	{
		1048	/* Primary trails always exist */
		1049	exists = BOOL_TRUE;
		1050	
		1051	
		1052	
		1053	/* Set to this template using the given trail */
		1054	if ((exists) && (EDMRST_SetToPreviousTemplate (GREST_Handle,
		1055	template,
		1056	isAlternate) ==
		1057	E_SUCCESS))
		1058	{
		1059	/* Initialize the work-item */
		1060	if (REST_InitWorkItem (workItemObj, &error))
		1061	{
		1062	/* Get the most recent backup */
		1063	if (EDMRST_SetToRecentBackup (
		1064	GREST_Handle, flags) == E_SUCCESS)
		1065	{
		1066	/* Initialize the work-item for this time */
		1067	

Page 123 of 444	REST_InitWorkItem	Fri Jan 04 14:31:46 2008
955	.....
956	* REST_InitWorkItem	
957	* Description:	
958	* This routine will initialize a work-item. This can be used so that	
959	* the Restore API will consider the work-item the current work-item	
960	* and the work-item routines can be called.	
961	* Parameters:	
962	* ParametersObject (I) - The work-item object to initialize.	
963	* ParametersObject (I) - The error code received if we can't init.	
964	* ErrorCode	
965	* Returns:	
966	* BOOL_TRUE - If we successfully init'd the work-item.	
967	* BOOL_FALSE - If we unsuccessfully init'd the work-item.	
968	.....
969	Boolean REST_InitWorkItem (GREST_Object workItemObj,	
970	error_t *errorCode)	
971	{	
972	GREST_Object objects[1]; /* Bonus buffer to get objects */	
973	long cookie = INIT_COOKIE; /* Ah, the magic cookie */	
974	long numItems = 0; /* Bonus value for object count */	
975	Boolean init = BOOL_FALSE; /* Flag if the init was successful */	
976	if (workItemObj != NULL)	
977	{	
978	if (workItemObj != NULL)	
979	{	
980	/* Create one object */	
981	if (EDMRST_AllocRestoreObj(objects, 1) == E_SUCCESS)	
982	{	
983	/* Attempt to get the object */	
984	if ((errorCode = EDMRST_GetRestoreObj(objects, GREST_Handle,	
985	workItemObj,	
986	BOOL_TRUE,	
987	objects,	
988	numItems,	
989	cookie)) ==	
990	E_SUCCESS)	
991	{	
992	/* Successfully init'd the work-item */	
993	init = BOOL_TRUE;	
994	}	
995	}	
996	}	
997	/* Prime up the object */	
998	EDMRST_FreezeRestoreObj(objects, GREST_Handle, objects, 1);	
999	}	
1000	/* Return whether or not we successfully init'd the work-item */	
1001	return (init);	
1002	}	
1003		
1004		
1005		
1006		
1007		
1008		
1009	.....
1010	* REST_GetMostRecentWorkTime	
1011	* Description:	
1012	* This routine will get the most recent backup time for the given	
1013	* work-item in the given template with the given trail.	
1014	* Parameters:	
1015	* ParametersObject (I) - The work-item object to get the time for.	
1016	* ParametersObject (I) - The template to use.	
1017	* IsAlternate	
1018	* I - Flag whether or not to use the alternate trail	
1019	* Returns:	
1020	* The time of the most recent backup, 0 if no backups exist.	
1021	*****	
1022	static time_t REST_GetMostRecentWorkTime (
1023	GREST_Object workItemObj,	
1024	template_name_t template,	
1025	Boolean isAlternate)	
1026	{	
1027	Boolean exists;	
1028	/* Flag if this template/trail exists */	
1029	/* Error Status */	
1030	error_t	
1031	time_t	
1032	thisTime = 0; /* Most recent time for work-item */	
1033	u_long	
1034	flags;	
1035	if (TRUE_GetSelected ((TRUE_GetRestoreIn->AllowPartialBackup))	
1036	flags = BACKUP_SELECTION_FLAG_PARTIAL_OK;	
1037	else	
1038	{	
1039	/* If this is the alternate trail */	
1040	if (isAlternate)	
1041	{	
1042	/* Check if there is an alternate trail for this template */	
1043	EDMRST_DoesAlternateExist (
1044	GREST_Handle, workItemObj, template, &exists);	
1045	}	
1046	/* Primary trails always exist */	
1047	exists = BOOL_TRUE;	
1048	}	
1049	/* Set to this template using the given trail */	
1050	if ((exists) && (EDMRST_SetToPreviousTemplate (GREST_Handle,	
1051	template,	
1052	isAlternate) ==	
1053	E_SUCCESS))	
1054	{	
1055	/* Initialize the work-item */	
1056	if (REST_InitWorkItem (workItemObj, &error))	
1057	{	
1058	/* Get the most recent backup */	
1059	if (EDMRST_SetToRecentBackup (
1060	GREST_Handle, flags) == E_SUCCESS)	
1061	{	
1062	/* Initialize the work-item for this time */	
1063	}	
1064	}	
1065	}	
1066	}	
1067	}	

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1139 3	{	
1141 3	/* Loop through each template */	
1142 3	for (i=0; i<numTemplates; i++)	
1143 4	{	
1145 4	/* Get the most recent time for the primary trail */	
1146 4	thstTime = REST_GetMostRecentWTime (workItemObject,	
1147 4	templates[i],	
1148 4	BOOL_FALSE);	
1150 4	/* If this time is more recent than what we have so far */	
1151 4	if (thstTime > mostRecentTime)	
1152 5	{	
1154 5	/* Mark this as the most recent backup */	
1155 5	mostRecentTime = thstTime;	
1156 5	STR_Copy (currentTemplate, templates[i]);	
1157 5	currentIsAlternate = BOOL_FALSE;	
1158 4	}	
1160 4	/* Get the most recent time for the alternate trail */	
1161 4	thstTime = REST_GetMostRecentWTime (workItemObject,	
1162 4	templates[i],	
1163 4	BOOL_TRUE);	
1165 4	/* If this time is more recent than what we have so far */	
1166 4	if (thstTime > mostRecentTime)	
1167 5	{	
1169 5	/* Mark this as the most recent backup */	
1170 5	mostRecentTime = thstTime;	
1171 5	STR_Copy (currentTemplate, templates[i]);	
1172 5	currentIsAlternate = BOOL_TRUE;	
1173 4	}	
1174 3	}	
1175 3	} else	
1176 3	{	
1177 3	/* Just get out */	
1178 3	cookie = DONE_COOKIE;	
1179 3	}	
1180 2	}	
1181 1	}	
1183 1	/* If we don't have a most recent time and the original was valid */	
1184 1	if ((mostRecentTime == 0) && origVal[i])	
1185 2	{	
1187 2	/* Get the most recent time for the original template/trail */	
1188 2	mostRecentTime = REST_GetMostRecentWTime (workItemObject,	
1189 2	templates[i],	
1190 2	originalAlternate);	
1191 2	/* Set the current to the original */	
1192 2	STR_Copy (currentTemplate, origTemplate);	
1193 2	currentIsAlternate = origIsAlternate;	
1194 1	}	
1197 1	/* If we found any templates */	
1198 1	if (mostRecentTime != 0)	
1199 2	{	
1200 2	/* Set to the most recent template and trail */	
1201 2	if (EDMRST_SetTopLevelTemplate (GREST_Handle,	
1202 2	workItemObject,	
1203 2	currentTemplate,	
1204 2	currentIsAlternate) == E_SUCCESS)	

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1205 3	{	
1206 3	/* Initialize this work-item */	
1207 3	if (REST_InitWorkItem (workItemObject, keeprtn))	
1208 4	{	
1209 4	/* Set to the most recent time */	
1210 4	EDMRST_SetBackupForTime (GREST_Handle, mostRecentTime, flags);	
1211 3	}	
1212 2	}	
1213 1	}	
1215	}	

Fr Jan 04 14:31:46 2008	REST_ValseaWorkItem	Page 129 of 444
1217	/*.....	
1218	* REST_ValseaWorkItem	
1219	* Description:	
1220	* This routine will determine if there are any valid backups for the	
1221	* given workItem.	
1222	* Parameters:	
1223	* workItemObject (I) - The work-item object to initialize.	
1224	* errorCode (O) - The error code received if we can't init.	
1225	* errorCode	
1226	* Returns:	
1227	* BOOL_TRUE - If we found a valid workItem	
1228	* BOOL_FALSE - If we did not find a valid workItem	
1229	*.....	
1230	static BOOLItem REST_ValseaWorkItem (GREST_Object workItemObject,	
1231	errno_t *errorCode)	
1232	{	
1233	Long cookie = INIT_COOKIE; /* Ah, the magic cookie */	
1234	short numTemplates; /* Number of templates returned */	
1235	template_name_t templates[TEMPLATES_BUFFER_LENGTH]; /* Number of templates returned */	
1236	int i; /* Loop Counter */	
1237	BOOLitem exists; /* Error code */	
1238	BoolItem returnValue = BOOL_FALSE; /* Flag if alternate exists */	
1239	BoolItem /* Flag if we found a valid one */	
1240	/* Try a simple init */	
1241	if (REST_InitWorkItem (workItemObject, errorCode))	
1242	/* got one, we're done */	
1243	returnValue = BOOL_TRUE;	
1244	/* Until we find a valid template, keep looping while more templates exist */	
1245	while ((returnValue == BOOL_FALSE) && (cookie != DONE_COOKIE))	
1246	{	
1247	/* Get the next group of templates */	
1248	numTemplates = 0;	
1249	if (GREST_GetTemplateTemplates (GREST_Handle,	
1250	workItemObject,	
1251	templates, BUFFER_LENGTH,	
1252	templates,	
1253	numTemplates,	
1254	&cookie) == E_SUCCESS)	
1255	{	
1256	/* Loop through each template */	
1257	for (i=0; (i<numTemplates) && (returnValue == BOOL_FALSE); i++)	
1258	{	
1259	/* Set to this template using the given trailset */	
1260	if (GREST_SetTemplateTemplate (GREST_Handle,	
1261	workItemObject,	
1262	templates[i],	
1263	BOOL_FALSE) == E_SUCCESS)	
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Page 131 of 444	REST_AddWorkItems	Fri Jan 04 14:31:46 2008
<pre> 1309 /* 1310 * REST_AddWorkItems 1311 * 1312 * Description: 1313 * This routine will add the work-items for the given parent. 1314 * 1315 * Parameters: 1316 * Parent (i) - The parent object to add work-items for 1317 * 1318 * Returns: 1319 * E_OK - If any work-items were added. 1320 * E_FAIL - If no work-items were added. 1321 * 1322 */ 1323 1324 Boolean REST_AddWorkItems (RestoreInfo* parent) 1325 { 1326 RestoreInfo* info; 1327 Boolean 1328 returnValue = BOOL_FALSE; /* Flag if WIS exist */ 1329 1330 GREST_Object 1331 workItems[WORK_ITEM_BUFFER_LENGTH]; 1332 1333 GREST_Object 1334 *unused; /* Array of WIS */ 1335 long 1336 cookie = INIT_COOKIE; /* Ah, the magic cookie */ 1337 short 1338 numChildren = 0; /* Number of WIS found */ 1339 int 1340 i; /* Loop counter */ 1341 char 1342 wType; /* Type of the work-item */ 1343 errno_t 1344 errno; /* Error Status */ 1345 1346 if (parent != NULL) 1347 { 1348 /* Get all the work-items for the given client */ 1349 while (cookie != DONE_COOKIE) 1350 { 1351 /* Allocate space for the next group of work-items */ 1352 if (EDMRST_AllocRestoreObjObjects (GREST_Handle, 1353 workItems, 1354 WORK_ITEM_BUFFER_LENGTH) == 1355 E_SUCCESS) 1356 { 1357 /* Get the work-items */ 1358 numChildren = 0; 1359 unused = workItems; 1360 if (GREST_GetWorkItemsObjObjects (GREST_Handle, 1361 parent->name, 1362 workItems, 1363 WORK_ITEM_BUFFER_LENGTH, 1364 numChildren, 1365 &cookie) == 1366 E_SUCCESS) 1367 { 1368 /* Loop through the returned work-items */ 1369 for (i=0, i<numChildren; i++) 1370 { 1371 /* Get the work-item type */ 1372 wType = EDMRST_GetWorkItemType (1373 GREST_Handle, workItems[i]); 1374 /* If this is a listener work-item, don't show the user */ 1375 if ((wType == WIS_TYPE_LISTENER) 1376 (wType == WIS_TYPE_CHILD_LISTENER)) 1377 continue; 1378 } 1379 } 1380 } 1381 } 1382 } 1383 1384 /* Bump the unused pointer past this one */ 1385 unused++; 1386 1387 /* Add the work-item object to the children list */ 1388 REST_AddChild (parent, info); /* Name of the work-item */ 1389 1390 /* Free up the left overs */ 1391 if (numChildren < WORK_ITEM_BUFFER_LENGTH) 1392 { 1393 EDMRST_FreeRestoreObjObjects (GREST_Handle, 1394 unused, 1395 WORK_ITEM_BUFFER_LENGTH - 1396 numChildren); 1397 } 1398 else 1399 { 1400 /* We got an error, ignore it and get out */ 1401 cookie = DONE_COOKIE; 1402 } 1403 1404 /* Check if we added any work-items */ 1405 returnValue = (returnValue); 1406 1407 /* Now that we have all the children, sort them */ 1408 REST_SortChildren (parent); 1409 1410 /* Return if we added any children */ 1411 return (returnValue); 1412 } 1413 </pre>	<pre> 1367 6 1368 7 1369 7 1370 7 1371 6 1372 6 1373 6 1374 6 1375 7 1376 7 1377 7 1378 7 1379 7 1380 7 1381 6 1382 6 1383 6 1384 6 1385 5 1386 4 1387 4 1388 5 1389 5 1390 5 1391 4 1392 4 1393 4 1394 4 1395 5 1396 5 1397 5 1398 5 1399 4 1400 3 1401 3 1402 4 1403 4 1404 4 1405 4 1406 2 1407 2 1408 2 1409 2 1410 2 1411 2 1412 2 1413 2 1414 1 1415 1 1416 1 1417 1 1418 1 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1991 1 1992 1 1993 1 1994 1 1995 1 1996 1 1997 1 1998 1 1999 1 2000 1 2001 1 2002 1 2003 1 2004 1 2005 1 2006 1 2007 1 2008 1 2009 1 2010 1 2011 1 2012 1 2013 1 2014 1 2015 1 2016 1 2017 1 2018 1 2019 1 2020 1 2021 1 2022 1 2023 1 2024 1 2025 1 2026 1 2027 1 2028 1 2029 1 2030 1 2031 1 2032 1 2033 1 2034 1 2035 1 2036 1 2037 1 2038 1 2039 1 2040 1 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 2048 1 2049 1 2050 1 2051 1 2052 1 2053 1 2054 1 2055 1 2056 1 2057 1 2058 1 2059 1 2060 1 2061 1 2062 1 2063 1 2064 1 2065 1 2066 1 2067 1 2068 1 2069 1 2070 1 2071 1 2072 1 2073 1 2074 1 2075 1 2076 1 2077 1 2078 1 2079 1 2080 1 2081 1 2082 1 2083 1 2084 1 2085 1 2086 1 2087 1 2088 1 2089 1 2090 1 2091 1 2092 1 2093 1 2094 1 2095 1 2096 1 2097 1 2098 1 2099 1 2100 1 2101 1 2102 1 2103 1 2104 1 2105 1 2106 1 2107 1 2108 1 2109 1 2110 1 2111 1 2112 1 2113 1 2114 1 2115 1 2116 1 2117 1 2118 1 2119 1 2120 1 2121 1 2122 1 2123 1 2124 1 2125 1 2126 1 2127 1 2128 1 2129 1 2130 1 2131 1 2132 1 2133 1 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<div> <div>REST_CheckForFillCancel</div> <div> <div> <div>1508</div> <div> /* </div> </div> <div> <div>1509</div> <div> * REST_CheckForFillCancel </div> </div> <div> <div>1510</div> <div> * Description: </div> </div> <div> <div>1511</div> <div> * This routine will determine if the user has cancelled the fill </div> </div> <div> <div>1512</div> <div> * and </div> </div> <div> <div>1513</div> <div> * will update the progress window. </div> </div> <div> <div>1514</div> <div> * Parameters: </div> </div> <div> <div>1515</div> <div> * None. </div> </div> <div> <div>1516</div> <div> * Returns: </div> </div> <div> <div>1517</div> <div> * BOOL_TRUE - If the user has cancelled </div> </div> <div> <div>1518</div> <div> * BOOL_FALSE - Otherwise </div> </div> <div> <div>1519</div> <div> * </div> </div> <div> <div>1520</div> <div> * </div> </div> <div> <div>1521</div> <div> * </div> </div> <div> <div>1522</div> <div> * </div> </div> <div> <div>1523</div> <div> static Boolean REST_CheckForFillCancel (Int localItems) </div> </div> <div> <div>1524</div> <div> { </div> </div> <div> <div>1525</div> <div> Char outputString(MAX_STRING_LENGTH); </div> </div> <div> <div>1526</div> <div> /* updated string to display */ </div> </div> <div> <div>1527</div> <div> Boolean retVal; </div> </div> <div> <div>1528</div> <div> if ((synchronHandle == NULL) && { </div> </div> <div> <div>1529</div> <div> localItems >= STATUS_REPORT_COUNT)) </div> </div> <div> <div>1530</div> <div> { </div> </div> <div> <div>1531</div> <div> /* Build the new string */ </div> </div> <div> <div>1532</div> <div> STR_Sprintf (outputString, </div> </div> <div> <div>1533</div> <div> REST_GetErrorString (REST_FILL_STATUS), </div> </div> <div> <div>1534</div> <div> localItems); </div> </div> <div> <div>1535</div> <div> /* Initialize the window */ </div> </div> <div> <div>1536</div> <div> synchronHandle = GAlert_DisplaySynchronousWait </div> </div> <div> <div>1537</div> <div> ((WinAPI)REST_GetFormWin, </div> </div> <div> <div>1538</div> <div> REST_GetErrorString(REST_FILL_PROGRESS_TITLE, </div> </div> <div> <div>1539</div> <div> GIcon_GetIcon(ICON_WAIT), </div> </div> <div> <div>1540</div> <div> outputString, </div> </div> <div> <div>1541</div> <div> outputString, </div> </div> <div> <div>1542</div> <div> BOOL_TRUE); </div> </div> <div> <div>1543</div> <div> } </div> </div> <div> <div>1544</div> <div> /* If the number of entries found has changed, update the string */ </div> </div> <div> <div>1545</div> <div> if ((localItems > 0) && (localItems & STATUS_REPORT_COUNT) == 0)) </div> </div> <div> <div>1546</div> <div> { </div> </div> <div> <div>1547</div> <div> /* Build the new string */ </div> </div> <div> <div>1548</div> <div> STR_Sprintf (outputString, </div> </div> <div> <div>1549</div> <div> REST_GetErrorString (REST_FILL_STATUS), </div> </div> <div> <div>1550</div> <div> localItems); </div> </div> <div> <div>1551</div> <div> /* Update the progress dialog */ </div> </div> <div> <div>1552</div> <div> GAlert_UpdateMessage (synchronHandle, outputString); </div> </div> <div> <div>1553</div> <div> } </div> </div> <div> <div>1554</div> <div> /* Return whether or not the user cancelled */ </div> </div> <div> <div>1555</div> <div> if (synchronHandle != NULL) </div> </div> <div> <div>1556</div> <div> else retVal = GAlert_IsCancelled(synchronHandle); </div> </div> <div> <div>1557</div> <div> retVal = BOOL_FALSE; </div> </div> <div> <div>1558</div> <div> return (retVal); </div> </div> <div> <div>1559</div> <div> } </div> </div> </div> </div> <div> <div>1560</div> <div> Page 135 of 444 </div> </div> <div> <div>1561</div> <div> resMfg.C.35 </div> </div> <div> <div>1562</div> <div> Fri Jan 04 14:31:46 2008 </div> </div>	<div> <div>REST_AddRestorableObjects</div> <div> <div>1563</div> <div> /* </div> </div> <div> <div>1564</div> <div> * REST_AddRestorableObjects </div> </div> <div> <div>1565</div> <div> * Description: </div> </div> <div> <div>1566</div> <div> * This routine will add restorable objects for the given parent </div> </div> <div> <div>1567</div> <div> * object. </div> </div> <div> <div>1568</div> <div> * Parameters: </div> </div> <div> <div>1569</div> <div> * parent (i) - The parent object to get the children of. </div> </div> <div> <div>1570</div> <div> * Returns: </div> </div> <div> <div>1571</div> <div> * BOOL_TRUE - If any children were added. </div> </div> <div> <div>1572</div> <div> * BOOL_FALSE - If no children were added. </div> </div> <div> <div>1573</div> <div> * </div> </div> <div> <div>1574</div> <div> * </div> </div> <div> <div>1575</div> <div> * </div> </div> <div> <div>1576</div> <div> * </div> </div> <div> <div>1577</div> <div> * </div> </div> <div> <div>1578</div> <div> * </div> </div> <div> <div>1579</div> <div> * </div> </div> <div> <div>1580</div> <div> * </div> </div> <div> <div>1581</div> <div> Boolean REST_AddRestorableObjects (RestorableObjt parent) </div> </div> <div> <div>1582</div> <div> { </div> </div> <div> <div>1583</div> <div> /* New child info */ </div> </div> <div> <div>1584</div> <div> RestorableObjt </div> </div> <div> <div>1585</div> <div> retVal = BOOL_FALSE; /* Value to return */ </div> </div> <div> <div>1586</div> <div> Boolean </div> </div> <div> <div>1587</div> <div> REST_Objt </div> </div> <div> <div>1588</div> <div> objects[OBJECTS_BUFFER_LENGTH]; </div> </div> <div> <div>1589</div> <div> /* Objects returned */ </div> </div> <div> <div>1590</div> <div> *unused: </div> </div> <div> <div>1591</div> <div> long </div> </div> <div> <div>1592</div> <div> cookie = INIT_COOKIE; </div> </div> <div> <div>1593</div> <div> /* Point to unused objects */ </div> </div> <div> <div>1594</div> <div> long </div> </div> <div> <div>1595</div> <div> numItems; </div> </div> <div> <div>1596</div> <div> /* Ah, the magic cookie */ </div> </div> <div> <div>1597</div> <div> if (parent != NULL) </div> </div> <div> <div>1598</div> <div> { </div> </div> <div> <div>1599</div> <div> /* If we are not updating the date, </div> </div> <div> <div>1600</div> <div> get the most recent work-item */ </div> </div> <div> <div>1601</div> <div> if ((parent->type == REST_WorkItem) && (updateDate)) </div> </div> <div> <div>1602</div> <div> { </div> </div> <div> <div>1603</div> <div> REST_GetMostRecentWin (parent->restObjt); </div> </div> <div> <div>1604</div> <div> } </div> </div> <div> <div>1605</div> <div> /* Initialize the fill handle */ </div> </div> <div> <div>1606</div> <div> synchronHandle = NULL; </div> </div> <div> <div>1607</div> <div> /* Get all the work items for the given client */ </div> </div> <div> <div>1608</div> <div> while ((REST_CheckForFillCancel (totalCount) </div> </div> <div> <div>1609</div> <div> cookie != DONE_COOKIE)) </div> </div> <div> <div>1610</div> <div> { </div> </div> <div> <div>1611</div> <div> /* Create the next group of objects */ </div> </div> <div> <div>1612</div> <div> if (EDMRST_AllocRestorableObjects (GREST_Handle, </div> </div> <div> <div>1613</div> <div> objects, </div> </div> <div> <div>1614</div> <div> OBJECTS_BUFFER_LENGTH) == </div> </div> <div> <div>1615</div> <div> E_SUCCESS) </div> </div> <div> <div>1616</div> <div> { </div> </div> <div> <div>1617</div> <div> /* Retrieve the next group of objects */ </div> </div> <div> <div>1618</div> <div> numItems = 0; </div> </div> <div> <div>1619</div> <div> unused = objects; </div> </div> <div> <div>1620</div> <div> if ((errno == EDMRST_GetRestorableObjects (GREST_Handle, </div> </div> <div> <div>1621</div> <div> parent->restObjt, </div> </div> <div> <div>1622</div> <div> BOOL_TRUE, </div> </div> <div> <div>1623</div> <div>) </div> </div> </div>

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1625

resMfg.C.36

1626

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```

1423 4         OBJECTS_BUFFER_LENGTH,
1424 5         object,
1425 6         cookies,
1426 7         cookie) ==
1427 8         E_SUCCESS)
1428 9     {
1429 10         /* Loop through all objects */
1430 11         for (i=0; i<numentries; i++)
1431 12         {
1432 13             /* If this is a directory create the directory object */
1433 14             if (EHRMST_IsObjectContainer (REST_Handle, objects[i]))
1434 15             {
1435 16                 info = REST_CreateDirectoryInfo (objects[i], parent);
1436 17             }
1437 18             /* If this is a file create the directory object */
1438 19             else if (EHRMST_IsObjectLeaf (REST_Handle, objects[i]))
1439 20             {
1440 21                 info = REST_CreateFileInfo (objects[i], parent);
1441 22             }
1442 23             /* Else this is an unknown object, treat it like a file */
1443 24             else
1444 25             {
1445 26                 info = REST_CreateFileInfo (objects[i], parent);
1446 27             }
1447 28             /* Add this child to the parent */
1448 29             REST_AddChild (parent, info);
1449 30             totalCount++;
1450 31             returnValue = BOOL_TRUE;
1451 32         }
1452 33         /* Bump the unused pointer past this one */
1453 34         unused++;
1454 35     }
1455 36     }
1456 37     else
1457 38     {
1458 39         /* If this is not a re-read, display an error
1459 40          * (else it would be displayed later)
1460 41          */
1461 42         if (!REST_IsReReadInProgress())
1462 43         {
1463 44             Char outputString[MAX_STRING_LENGTH];
1464 45             /* Setting to display */
1465 46             /* Get the message to display */
1466 47             STR_Sprintf (outputString,
1467 48                 EHRMST_GetObjectFullName (
1468 49                     REST_Handle, parent->parentObject));
1469 49             /* display the error message */
1470 50             REST_DisplayErrorMessage (NULL, outputString,
1471 51                 EHRMST_GetObjectFullName (REST_Handle, parent->parentObject),
1472 52                 outputString,
1473 53                 errno);
1474 54         }
1475 55         /* Get out of the loop */
1476 56         cookie = DONE_COOKIE;
1477 57     }
1478 58 }
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1485 5         /*
1486 6          * If this was a workitem, flag it as failed and get out
1487 7          */
1488 8         if (parent->type == REST_WorkItem)
1489 9         {
1490 10             parent->type = REST_FailedWorkItem;
1491 11             parent->errorString = es1_strdup (a_get_error_text(
1492 12                 parent->children = REST_CreateErrorInfo (
1493 13                     parent->errorString,
1494 14                     parent));
1495 15             }
1496 16         }
1497 17         /* Free up the left overs */
1498 18         if (numentries < OBJECTS_BUFFER_LENGTH)
1499 19         {
1500 20             EHRMST_PriorRestorableObjects (REST_Handle,
1501 21                 unused,
1502 22                 OBJECTS_BUFFER_LENGTH -
1503 23                     numentries);
1504 24         }
1505 25         }
1506 26         else
1507 27         {
1508 28             /* Got an error, ignore it and get out */
1509 29             cookie = DONE_COOKIE;
1510 30         }
1511 31     }
1512 32     }
1513 33     /* The fill handle is not NULL, remove the progress window. */
1514 34     if (syncFillHandle != NULL)
1515 35     {
1516 36         GALLERY_CancelSyncDialog (syncFillHandle);
1517 37         syncFillHandle = NULL;
1518 38     }
1519 39     /* Now that we have all the children, sort them */
1520 40     REST_SortChildren (parent);
1521 41     }
1522 42     /* Return whether or not we found children */
1523 43     return (returnValue);
1524 44 }
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1728	/*	1768	/*
1729	* REST_CreateInChildren	1769	* REST_CreateInChildren
1730	1770
1731	* Description:	1771	* Description:
1732	* This routine will create the children for the given object.	1772	* This routine will find the info object for the given full
1733	* Parameters:	1773	* child name.
1734	* parent (I) - The parent object to get the children of.	1774	* Parameters:
1735	* parent (I) - The parent object to get the children of.	1775	* parent (I) - The full name of the object to be found.
1736	* Returns:	1776	* parent (I) - The parent object to start the search from.
1737	* None.	1777	* getChildren (
1738	*	1778	* I) - Flag if new children should be created if necessary
1739	void REST_CreateInChildren (RestoreInfoPtr parent)	1779	* Returns:
1740	1780	* The found object or NULL if not found
1741	{	1781	*
1742	if (parent != NULL)	1782
1743	{	1783
1744	/* Call the correct add routine based on type */	1785	RestoreInfoPtr REST_FindInfoInChildren (SR
1745	switch (parent->type)	1786	RestoreInfoPtr parent,
1746	{	1787	BoolEnum
1747	case REST_Client:	1788	getChildren)
1748	REST_AddWorkItems (parent);	1789	{
1749	break;	1790	RestoreInfoPtr tmpInfo;
1750	case REST_WorkItem:	1791	/* Pointer to walk the children with */
1751	REST_AddRestorableObjects (parent);	1792	RestoreInfoPtr foundInfo = NULL; /* Matching info found */
1752	break;	1793	REST_StandardizePath(tmpInfoName);
1753	case REST_Directory:	1794	if (parent != NULL)
1754	break;	1795	{
1755	REST_AddRestorableObjects (parent);	1796	/* If there are no children yet, add them (but don't display) */
1756	break;	1797	if (getChildren && (parent->children == NULL) && (
1757	case REST_File:	1798	parent->type != REST_File))
1758	break;	1799	{
1759	default:	1800	/* Set the flag so that the objects aren't displayed */
1760	break;	1801	updateInfo = BOOL_TRUE;
1761	break;	1802	/* Add the child objects */
1762	break;	1803	REST_CreateInChildren (parent);
1763	break;	1804	/* Set the flag back */
1764	break;	1805	updateInfo = BOOL_FALSE;
1765	break;	1806	/* Loop through the children */
1766	}	1807	tmpInfo = parent->children
		1808	while ((foundInfo == NULL) && (tmpInfo != NULL))
		1809	{
		1810	/* Check if this is the one */
		1811	tmpInfo = parent->children
		1812	while ((foundInfo == NULL) && (tmpInfo != NULL))
		1813	{
		1814	/* Check if this is the one */
		1815	if (STR_Cmp (tmpInfoName, REST_GetFullName (
		1816	tmpInfo)) == CMP_EQUAL)
		1817	{
		1818	foundInfo = tmpInfo;
		1819	}
		1820	/* If this could be the parent, the check its children */
		1821	else if ((tmpInfo->type != REST_File) &&
		1822	else if ((tmpInfo->type != REST_File) &&
		1823	(REST_IsParentString (tmpInfo, tmpInfoName)))
		1824	{
		1825	foundInfo = REST_FindInfoInChildren (
		1826	tmpInfoName, tmpInfo, getChildren);
			}

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1728	/*	1768	/*
1729	* REST_CreateInChildren	1769	* REST_CreateInChildren
1730	1770
1731	* Description:	1771	* Description:
1732	* This routine will create the children for the given object.	1772	* This routine will find the info object for the given full
1733	* Parameters:	1773	* child name.
1734	* parent (I) - The parent object to get the children of.	1774	* Parameters:
1735	* parent (I) - The parent object to get the children of.	1775	* parent (I) - The full name of the object to be found.
1736	* Returns:	1776	* parent (I) - The parent object to start the search from.
1737	* None.	1777	* getChildren (
1738	*	1778	* I) - Flag if new children should be created if necessary
1739	void REST_CreateInChildren (RestoreInfoPtr parent)	1779	* Returns:
1740	.....	1780	* The found object or NULL if not found
1741	{	1781	*
1742	if (parent != NULL)	1782	.....
1743	{	1783	.....
1744	/* Call the correct add routine based on type */	1785	RestoreInfoPtr REST_FindInfoInChildren (SR
1745	switch (parent->type)	1786	RestoreInfoPtr parent,
1746	{	1787	BoolEnum
1747	case REST_Client:	1788	getChildren)
1748	REST_AddWorkItems (parent);	1789	{
1749	break;	1790	RestoreInfoPtr tmpInfo;
1750	case REST_WorkItem:	1791	/* Pointer to walk the children with */
1751	REST_AddRestorableObjects (parent);	1792	RestoreInfoPtr foundInfo = NULL; /* Matching info found */
1752	break;	1793	REST_StandardizePath(tmpInfoName);
1753	case REST_Directory:	1794	if (parent != NULL)
1754	break;	1795	{
1755	REST_AddRestorableObjects (parent);	1796	/* If there are no children yet, add them (but don't display) */
1756	break;	1797	if (getChildren && (parent->children == NULL) && (
1757	case REST_File:	1798	parent->type != REST_File))
1758	break;	1799	{
1759	default:	1800	/* Set the flag so that the objects aren't displayed */
1760	break;	1801	updateInfo = BOOL_TRUE;
1761	break;	1802	/* Add the child objects */
1762	break;	1803	REST_CreateInChildren (parent);
1763	break;	1804	/* Set the flag back */
1764	break;	1805	updateInfo = BOOL_FALSE;
1765	break;	1806	/* Loop through the children */
1766	}	1807	tmpInfo = parent->children
		1808	while ((foundInfo == NULL) && (tmpInfo != NULL))
		1809	{
		1810	/* Check if this is the one */
		1811	tmpInfo = parent->children
		1812	while ((foundInfo == NULL) && (tmpInfo != NULL))
		1813	{
		1814	/* Check if this is the one */
		1815	if (STR_Cmp (tmpInfoName, REST_GetFullName (
		1816	tmpInfo)) == CMP_EQUAL)
		1817	{
		1818	foundInfo = tmpInfo;
		1819	}
		1820	/* If this could be the parent, the check its children */
		1821	else if ((tmpInfo->type != REST_File) &&
		1822	else if ((tmpInfo->type != REST_File) &&
		1823	(REST_IsParentString (tmpInfo, tmpInfoName)))
		1824	{
		1825	foundInfo = REST_FindInfoInChildren (
		1826	tmpInfoName, tmpInfo, getChildren);
			}

Page 139 of 444	REST_CreateInChildren	Fri Jan 04 14:31:46 2008	
1728	/*	1768	/*
1729	* REST_CreateInChildren	1769	* REST_CreateInChildren
1730	1770
1731	* Description:	1771	* Description:
1732	* This routine will create the children for the given object.	1772	* This routine will find the info object for the given full
1733	* Parameters:	1773	* child name.
1734	* parent (I) - The parent object to get the children of.	1774	* Parameters:
1735	* parent (I) - The parent object to get the children of.	1775	* parent (I) - The full name of the object to be found.
1736	* Returns:	1776	* parent (I) - The parent object to start the search from.
1737	* None.	1777	* getChildren (
1738	*	1778	* I) - Flag if new children should be created if necessary
1739	void REST_CreateInChildren (RestoreInfoPtr parent)	1779	* Returns:
1740	1780	* The found object or NULL if not found
1741	{	1781	*
1742	if (parent != NULL)	1782
1743	{	1783
1744	/* Call the correct add routine based on type */	1785	RestoreInfoPtr REST_FindInfoInChildren (SR
1745	switch (parent->type)	1786	RestoreInfoPtr parent,
1746	{	1787	BoolEnum
1747	case REST_Client:	1788	getChildren)
1748	REST_AddWorkItems (parent);	1789	{
1749	break;	1790	RestoreInfoPtr tmpInfo;
1750	case REST_WorkItem:	1791	/* Pointer to walk the children with */
1751	REST_AddRestorableObjects (parent);	1792	RestoreInfoPtr foundInfo = NULL; /* Matching info found */
1752	break;	1793	REST_StandardizePath(tmpInfoName);
1753	case REST_Directory:	1794	if (parent != NULL)
1754	break;	1795	{
1755	REST_AddRestorableObjects (parent);	1796	/* If there are no children yet, add them (but don't display) */
1756	break;	1797	if (getChildren && (parent->children == NULL) && (
1757	case REST_File:	1798	parent->type != REST_File))
1758	break;	1799	{
1759	default:	1800	/* Set the flag so that the objects aren't displayed */
1760	break;	1801	updateInfo = BOOL_TRUE;
1761	break;	1802	/* Add the child objects */
1762	break;	1803	REST_CreateInChildren (parent);
1763	break;	1804	/* Set the flag back */
1764	break;	1805	updateInfo = BOOL_FALSE;
1765	break;	1806	/* Loop through the children */
1766	}	1807	tmpInfo = parent->children
		1808	while ((foundInfo == NULL) && (tmpInfo != NULL))
		1809	{
		1810	/* Check if this is the one */
		1811	tmpInfo = parent->children
		1812	while ((foundInfo == NULL) && (tmpInfo != NULL))
		1813	{
		1814	/* Check if this is the one */
		1815	if (STR_Cmp (tmpInfoName, REST_GetFullName (
		1816	tmpInfo)) == CMP_EQUAL)
		1817	{
		1818	foundInfo = tmpInfo;
		1819	}
		1820	/* If this could be the parent, the check its children */
		1821	else if ((tmpInfo->type != REST_File) &&
		1822	else if ((tmpInfo->type != REST_File) &&
		1823	(REST_IsParentString (tmpInfo, tmpInfoName)))
		1824	{
		1825	foundInfo = REST_FindInfoInChildren (
		1826	tmpInfoName, tmpInfo, getChildren);
			}

Page 139 of 444	REST_CreateInChildren	Fri Jan 04 14:31:46 2008	
1728	/*	1768	/*
1729	* REST_CreateInChildren	1769	* REST_CreateInChildren
1730	1770
1731	* Description:	1771	* Description:
1732	* This routine will create the children for the given object.	1772	* This routine will find the info object for the given full
1733	* Parameters:	1773	* child name.
1734	* parent (I) - The parent object to get the children of.	1774	* Parameters:
1735	* parent (I) - The parent object to get the children of.	1775	* parent (I) - The full name of the object to be found.
1736	* Returns:	1776	* parent (I) - The parent object to start the search from.
1737	* None.	1777	* getChildren (
1738	*	1778	* I) - Flag if new children should be created if necessary
1739	void REST_CreateInChildren (RestoreInfoPtr parent)	1779	* Returns:
1740	1780	* The found object or NULL if not found
1741	{	1781	*
1742	if (parent != NULL)	1782
1743	{	1783
1744	/* Call the correct add routine based on type */	1785	RestoreInfoPtr REST_FindInfoInChildren (SR
1745	switch (parent->type)	1786	RestoreInfoPtr parent,
1746	{	1787	BoolEnum
1747	case REST_Client:	1788	getChildren)
1748	REST_AddWorkItems (parent);	1789	{
1749	break;	1790	RestoreInfoPtr tmpInfo;
1750	case REST_WorkItem:	1791	/* Pointer to walk the children with */
1751	REST_AddRestorableObjects (parent);	1792	RestoreInfoPtr foundInfo = NULL; /* Matching info found */
1752	break;	1793	REST_StandardizePath(tmpInfoName);
1753	case REST_Directory:	1794	if (parent != NULL)
1754	break;	1795	{
1755	REST_AddRestorableObjects (parent);	1796	/* If there are no children yet, add them (but don't display) */
1756	break;	1797	if (getChildren && (parent->children == NULL) && (
1757	case REST_File:	1798	parent->type != REST_File))
1758	break;	1799	{
1759	default:	1800	/* Set the flag so that the objects aren't displayed */
1760	break;	1801	updateInfo = BOOL_TRUE;
1761	break;	1802	/* Add the child objects */
1762	break;	1803	REST_CreateInChildren (parent);
1763	break;	1804	/* Set the flag back */
1764	break;	1805	updateInfo = BOOL_FALSE;
1765	break;	1806	/* Loop through the children */
1766	}	1807	tmpInfo = parent->children
		1808	while ((foundInfo == NULL) && (tmpInfo != NULL))
		1809	{
		1810	/* Check if this is the one */
		1811	tmpInfo = parent->children
		1812	while ((foundInfo == NULL) && (tmpInfo != NULL))
		1813	{
		1814	/* Check if this is the one */
		1815	if (STR_Cmp (tmpInfoName, REST_GetFullName (
		1816	tmpInfo)) == CMP_EQUAL)
		1817	{
		1818	foundInfo = tmpInfo;
		1819	}
		1820	/* If this could be the parent, the check its children */
		1821	else if ((tmpInfo->type != REST_File) &&
		1822	else if ((tmpInfo->type != REST_File) &&
		1823	(REST_IsParentString (tmpInfo, tmpInfoName)))
		1824	{
		1825	foundInfo = REST_FindInfoInChildren (
		1826	tmpInfoName, tmpInfo, getChildren);
			}

Page 139 of 444	REST_CreateInChildren	Fri Jan 04 14:31:46 2008	
1728	/*	1768	/*
1729	* REST_CreateInChildren	1769	* REST_CreateInChildren
1730	1770
1731	* Description:	1771	* Description:
1732	* This routine will create the children for the given object.	1772	* This routine will find the info object for the given full
1733	* Parameters:	1773	* child name.
1734	* parent (I) - The parent object to get the children of.	1774	* Parameters:
1735	* parent (I) - The parent object to get the children of.	1775	* parent (I) - The full name of the object to be found.
1736	* Returns:	1776	* parent (I) - The parent object to start the search from.
1737	* None.	1777	* getChildren (
1738	*	1778	* I) - Flag if new children should be created if necessary
1739	void REST_CreateInChildren (RestoreInfoPtr parent)	1779	* Returns:
1740	1780	* The found object or NULL if not found
1741	{	1781	*
1742	if (parent != NULL)	1782
1743	{	1783
1744	/* Call the correct add routine based on type */	1785	RestoreInfoPtr REST_FindInfoInChildren (SR
1745	switch (parent->type)	1786	RestoreInfoPtr parent,
1746	{	1787	BoolEnum
1747	case REST_Client:	1788	getChildren)
1748	REST_AddWorkItems (parent);	1789	{
1749	break;	1790	RestoreInfoPtr tmpInfo;
1750	case REST_WorkItem:	1791	/* Pointer to walk the children with */
1751	REST_AddRestorableObjects (parent);	1792	RestoreInfoPtr foundInfo = NULL; /* Matching info found */
1752	break;	1793	REST_StandardizePath(tmpInfoName);
1753	case REST_Directory:	1794	if (parent != NULL)
1754	break;	1795	{
1755	REST_AddRestorableObjects (parent);	1796	/* If there are no children yet, add them (but don't display) */
1756	break;	1797	if (getChildren && (parent->children == NULL) && (
1757	case REST_File:	1798	parent->type != REST_File))
1758	break;	1799	{
1759	default:	1800	/* Set the flag so that the objects aren't displayed */
1760	break;	1801	updateInfo = BOOL_TRUE;
1761	break;	1802	/* Add the child objects */
1762	break;	1803	REST_CreateInChildren (parent);
1763	break;	1804	/* Set the flag back */
1764	break;	1805	updateInfo = BOOL_FALSE;
1765	break;	1806	/* Loop through the children */
1766	}	1807	tmpInfo = parent->children
		1808	while ((foundInfo == NULL) && (tmpInfo != NULL))
		1809	{
		1810	/* Check if this is the one */
		1811	tmpInfo = parent->children
		1812	while ((foundInfo == NULL) && (tmpInfo != NULL))
		1813	{
		1814	/* Check if this is the one */
		1815	if (STR_Cmp (tmpInfoName, REST_GetFullName (
		1816	tmpInfo)) == CMP_EQUAL)
		1817	{
		1818	foundInfo = tmpInfo;
		1819	}
		1820	/* If this could be the parent, the check its children */
		1821	else if ((tmpInfo->type != REST_File) &&
		1822	else if ((tmpInfo->type != REST_File) &&
		1823	(REST_IsParentString (tmpInfo, tmpInfoName)))
		1824	{
		1825	foundInfo = REST_FindInfoInChildren (
		1826	tmpInfoName, tmpInfo, getChildren);
			}

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1728	/*	1768	/*
1729	* REST_CreateInChildren	1769	* REST_CreateInChildren
1730	1770
1731	* Description:	1771	* Description:

```

1828 3      /* Go to the next child */
1829 2      }
1830 2      tempInfo = tempInfo->next;
1831 1      }
1832 1
1833 1      /* Return the found object or NULL if not found */
1834 1      return (foundInfo);
1835 1      }

```

```

1837 1      /*****
1838 1      * REST_StartClientList
1839 1      * Description:
1840 1      * This routine will initialize the global client list.
1841 1      * The old client list if it existed. It will free up
1842 1      * Parameters:
1843 1      * None.
1844 1      * Returns:
1845 1      * None.
1846 1      * *****/
1847 1
1848 1      void REST_StartClientList (void)
1849 1      {
1850 1      * RestoreClientPtr curClient;
1851 1      * /* Current client pointer to walk the list */
1852 1      * RestoreClientPtr nextClient; /* Next client in the list */
1853 1
1854 1      /* If there is already a list, free it up */
1855 1      if (currentClientList != NULL)
1856 1      {
1857 1      /* Start at the beginning of the list */
1858 1      curClient = currentClientList;
1859 1
1860 1      /* Loop until there are no more clients */
1861 1      while (curClient != NULL)
1862 1      {
1863 1      /* Save the next client pointer */
1864 1      nextClient = curClient->next;
1865 1
1866 1      /* Free up this client */
1867 1      gutil_free ((voidptr)curClient);
1868 1
1869 1      /* Go to the next client */
1870 1      curClient = nextClient;
1871 1      }
1872 1
1873 1      /* Set the current client list to NULL */
1874 1      currentClientList = NULL;
1875 1
1876 1      }
1877 1
1878 1      }
1879 1
1880 1
1881 1      }

```

Page 143 of 444	REST_AddClient	Fri Jan 04 14:31:46 2008	Page 144 of 444	REST_StartWithList	Fri Jan 04 14:31:46 2008
<pre>1883 /* 1884 * REST_AddClient 1885 * 1886 * Description: 1887 * This routine will add a client to the global client list. 1888 * Parameters: 1889 * clientName (I) - name of the client to add 1890 * Returns: 1891 * None. 1892 * 1893 * 1894 void REST_AddClient (Str clientName) 1895 { 1896 RestoreClientPtr nextClient; /* The new client info */ 1897 RestoreClientPtr nextClient; /* Pointer to walk the current list with */ 1898 /* Create the new client */ 1899 nextClient = (RestoreClientPtr) GUTL_Malloc (sizeof(1900 RestoreClientRec)); 1901 STR_Copy (nextClient->clientName, clientName); 1902 nextClient->next = NULL; 1903 /* attach the new client to the end of the list */ 1904 if (currentClientList != NULL) 1905 { 1906 nextClient = currentClientList; 1907 while (nextClient->next != NULL) 1908 { 1909 nextClient = nextClient->next; 1910 } 1911 nextClient->next = nextClient; 1912 } 1913 else 1914 { 1915 currentClientList = nextClient; 1916 } 1917 }</pre>	<pre>1923 /* 1924 * REST_StartWithList 1925 * 1926 * Description: 1927 * This routine will initialize the global work item list. 1928 * It will free up 1929 * the old work item list if it existed. 1930 * Parameters: 1931 * None. 1932 * Returns: 1933 * None. 1934 * 1935 * 1936 void REST_StartWithList (void) 1937 { 1938 RestoreWorkItemPtr curWIL; /* Current WI pointer to walk the list */ 1939 RestoreWorkItemPtr nextWIL; /* Next WI in the list */ 1940 /* If there is already a list, free it up */ 1941 if (currentWIL != NULL) 1942 { 1943 curWIL = currentWIL; 1944 while (curWIL != NULL) 1945 { 1946 /* Loop until there are no more WILs */ 1947 while (curWIL->next != NULL) 1948 { 1949 /* Save the next WI pointer */ 1950 nextWIL = curWIL->next; 1951 /* Free up this WI */ 1952 GUTL_Free ((void*)curWIL); 1953 curWIL = nextWIL; 1954 } 1955 /* Go to the next WI */ 1956 curWIL = nextWIL; 1957 } 1958 /* Set the current WI list to NULL */ 1959 currentWIL = NULL; 1960 }</pre>				
Page 143 of 444	restMg.c 43	Fri Jan 04 14:31:46 2008	Page 144 of 444	restMg.c 44	Fri Jan 04 14:31:46 2008

```

1480 //
1490 * REST_AdvM1
1491 .....
1492 * Description:
1493 * This routine will add a work item to the global work item list.
1494
1495 * Parameters:
1496 * wName (I) - name of the work item to add
1497
1498 * Returns:
1499 * None.
1500
1501 .....
1502
1503 void REST_AdvM1 (STR wName)
1504 {
1505     RestoreWorkItemRec newMI; /* The new MI info */
1506     RestoreWorkItemRec nextMI; /* Pointer to walk the current list with */
1507
1508     /* Create the new work item */
1509     newMI = (RestoreWorkItemRec) GUTIL_Malloc (sizeof (RestoreWorkItemRec));
1510
1511     STR_Copy (newMI->wName, wName);
1512     newMI->next = NULL;
1513
1514     /* attach the new work item to the end of the list */
1515     if (currentWList != NULL)
1516     {
1517         nextMI = currentWList;
1518         while (nextMI->next != NULL)
1519         {
1520             nextMI = nextMI->next;
1521         }
1522         nextMI->next = newMI;
1523     }
1524     else
1525     {
1526         currentWList = newMI;
1527     }
1528 }
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2009 //
2010 * REST_UnmarkProgressCB
2011 .....
2012 * Description:
2013 * This routine will report current unmark progress to the user
2014
2015 * Parameters:
2016 * totalMarks (I) - the number of unmarked items
2017
2018 * Returns:
2019 * BOOL_TRUE - If the unmark operation should continue
2020 * BOOL_FALSE - If the user cancelled the operation
2021
2022 .....
2023
2024 static Boolean REST_UnmarkProgressCB (unsigned long totalMarks)
2025 {
2026     Char
2027     outputString[MAX_STRING_LENGTH];
2028
2029     /* Message string to display */
2030
2031     STR_Sprintf (outputString,
2032                 REST_GetErrorString (REST_UNMARK_PROGRESS_FORBART),
2033                 totalMarks);
2034
2035     if (syncMarkHandle == NULL)
2036     {
2037         /* Initialize the window */
2038         syncMarkHandle = GAlert_DisplaySynchronousWait
2039             (WinPrf (REST_RestoreWin,
2040                 REST_GetErrorString (REST_UNMARK_PROGRESS_TITLE),
2041                 "Unmarking Progress",
2042                 TRUE,
2043                 TRUE));
2044     }
2045     else
2046     {
2047         GAlert_UpdateMessage (syncMarkHandle, outputString);
2048     }
2049     /* Return whether or not the user cancelled */
2050     return (! GAlert_IsCancelled (syncMarkHandle));
2051 }
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Page 147 of 444	REST_MarkRestoreObjObject	Fri Jan 04 14:31:46 2008
2052	/*	2111 3
2053	REST_MarkRestoreObjObject	2112 3
2054	/* Description:	2113 3
2055	/* This routine mark the given restore object.	2114 3
2056	/* Parameters:	2115 3
2057	/* restoreObj (I) - the object to mark	2116 3
2058	/* backupTime (O) - the time of the backup for the object	2117 3
2059	/* numberOfMarked (O) - the number of marked items	2118 3
2060	/* numberOfMarked (O) - the number of bad items marked	2119 3
2061	/* Returns:	2120 3
2062	/* BOOL_TRUE - If the object was marked successfully	2121 3
2063	/* BOOL_FALSE - otherwise	2122 3
2064	*****	2123 3
2065	*****	2124 3
2066	*****	2125 3
2067	*****	2126 3
2068	*****	2127 3
2069	*****	2128 3
2070	Boolean REST_MarkRestoreObjObject (GREST_ObjObject restoreObj,	2129 3
2071	time_t backupTime,	2130 3
2072	long *numberOfMarked,	2131 3
2073	long *numberOfBad)	2132 3
2074	long	2133 3
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Page 151 of 444	REST_UmarKRestoreObjObject	Fri Jan 04 14:31:46 2008	Page 152 of 444	REST_UmarKRestoreObjObject	Fri Jan 04 14:31:46 2008
2246	/*.....	2297	if (syncMarkHandle == NULL)		
2247	* REST_UmarKRestoreObjObject	2298	{	/* Initialize the window */	
2248	Description:	2299	syncMarkHandle = GALERT_DisplaySynchronousWait		
2249	* This function unmark the given restore object.	2300	{ WinPrt } REST_RestoreWin,		
2250		2301	REST_GetRestoreString (
2251	* Parameters:	2302	REST_UNMARK_PROGRESS_TITLE,		
2252	* backObjObject (I) - the object to mark	2303	GION_GetRestoreTitle(),		
2253	* restoreObj (I) - the line of the backup for the object	2304	outputString;		
2254	* numberMarked (O) - the number of marked items	2305	outputString;		
2255	* numberMarked (O) - the number of bad items marked	2306	BOOL_TRUE);		
2256		2307)		
2257	* Returns:	2308	else		
2258	* BOOL_TRUE - If the object was unmarked successfully	2309	{		
2259	* BOOL_FALSE - otherwise	2310	GALERT_UpdateMessage (syncMarkHandle, outputString);		
2260		2311	}		
2261	2312			
2262		2313			
2263	BoolEnum REST_UmarKRestoreObjObject (GREST_Object restoreObj,	2314			
2264	long time_C	2315			
2265	long *numberMarked,	2316			
2266	long *numberBad)	2317			
2267	{	2318			
2268	BoolEnum unmarked = BOOL_FALSE;	2319	if (syncMarkHandle != NULL)		
2269	char outputString[MX_STRING_LENGTH];	2320	{		
2270	if (GALERT_IsCancelled (syncMarkHandle))	2321	{		
2271	error: by error;	2322	if (GALERT_IsCancelled (syncMarkHandle))		
2272	u_long badFiles = 0;	2323	{		
2273	u_long markedFiles = 0;	2324	/* Display the warning message */		
2274	u_long markedOthers = 0;	2325	GALERT_DisplayError (WinPrt REST_RestoreWin,		
2275	u_long totalMarks = 0;	2326	REST_GetRestoreString (
2276	u_long totalMarks = 0;	2327	REST_UNMARK_CANCELLED_TITLE,		
2277	boolEnum byInterrupt = BOOL_FALSE;	2328	REST_GetRestoreString (
2278	/* Validate the object */	2329	REST_GetRestoreString (
2279	if ((restoreObj != NULL) && (numberMarked != NULL) && (numberBad != NULL))	2330	REST_UNMARK_CANCELLED_MESSAGE);		
2280	{	2331			
2281	/* Initialize the current mark handle to NULL */	2332			
2282	syncMarkHandle = NULL;	2333			
2283	errorno = EMARKST_UnmarkObject (GREST_Handle,	2334			
2284	restoreObj,	2335			
2285	backObjTime,	2336			
2286	BOOL_FALSE,	2337			
2287	BOOL_TRUE);	2338			
2288		2339			
2289	if (errorno == E_SUCCESS)	2340			
2290	{	2341			
2291	while ((errorno = EMARKST_GetMarkResults (GREST_Handle,	2342			
2292	interrupt,	2343			
2293	badFiles,	2344			
2294	markedFiles,	2345			
2295	markedKdits,	2346			
2296	markedKdits) ==	2347			
2297	EP_AB_RECOVER_NOC_INCOMPLETE)	2348			
2298		2349			
2299	{	2350			
2300	totalMarks = markedFiles + markedKdits + markedOthers;	2351			
2301	if (totalMarks > REST_MARK_THRESHOLD)	2352			
2302	{	2353			
2303	STR_Sprintf (outputString,	2354			
2304	REST_GetRestoreString (2355			
2305	REST_UNMARK_PROGRESS_FORMAT,	2356			
2306	totalMarks);	2357			
2307	restObj.C51	2358			
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2188 1	55R_Sprintf (outpstrng,	REST_UnmarkRestorableObject	2184	/*	REST_MarkInfo
2189 3	REST_Converting (REST_UNABLE_TO_UNMARK,		2185	* REST_MarkInfo	
2190 3	REST_GetObjSecFillName		2186	* Description:	
	gREST_Handle, restoreObject);		2187	* This routine will unmark the given info object	
2192 3	/* Display the error message */		2188	* Parameters:	
2193 3	REST_DisplayErrorMessage ((WinPtr REST_RestoreWin,		2189	Info	- The info object to unmark
2194 3	NULL,		2190	numberMarked - The number of marked objects	
2195 3	outpstrng,		2191	numberBad - The number of bad files unmarked	
2196 3	errmsg);		2192	* Returns:	
2197 2	}		2193	* None.	
2198 1			2194		
2199 1	/* Return whether or not the object was unmarked */		2195		
2200 1	return (unmarked);		2196		
2201 1			2197		
2202 1			2198		
2203 1			2199	Boolean REST_MarkInfo (RestoreInfoPtr info,	
2204 1			2200	Long	
2205 1			2201	numberMarked,	
2206 1			2202	numberBad)	
2207 1			2203 1	{	
2208 1			2204 1	Boolean	
2209 1			2205 1	thisMark = BOOL_FALSE;	
2210 1			2206 1	/* Flag if this mark was successful */	
2211 1			2207 1	Long	
2212 1			2208 1	thisBad = 0;	
2213 1			2209 1	/* Number of bad files in a mark */	
2214 1			2210 1	RestoreInfoPtr nextChild;	
2215 1			2211 1	/* Loop pointer to next object */	
2216 1			2212 1		
2217 1			2213 1	if (info != NULL)	
2218 1			2214 1	{	
2219 1			2215 1	/* If this is a file or a directory mark the restorable object */	
2220 1			2216 1	if ((info->marked) &&	
2221 1			2217 1	((info->type == REST_File) || (info->type == REST_Directory))	
2222 1			2218 1	{	
2223 1			2219 1	thisMark = REST_MarkRestoreableObject (info->restoreObject,	
2224 1			2220 1	0,	
2225 1			2221 1	numberMarked,	
2226 1			2222 1	numberBad);	
2227 1			2223 1	}	
2228 1			2224 1	else if ((info->marked) && (info->type == REST_WorkItem))	
2229 1			2225 1	{	
2230 1			2226 1	if (info->children == NULL)	
2231 1			2227 1	{	
2232 1			2228 1	/* Set the flag so that the objects aren't displayed */	
2233 1			2229 1	updatingDate = BOOL_TRUE;	
2234 1			2230 1	/* Add the child objects */	
2235 1			2231 1	REST_CreateInfoChildren (info);	
2236 1			2232 1	/* Set the flag back */	
2237 1			2233 1	updatingDate = BOOL_FALSE;	
2238 1			2234 1	}	
2239 1			2235 1	/* Loop through and mark all the children */	
2240 1			2236 1	nextChild = info->children;	
2241 1			2237 1	while (nextChild != NULL)	
2242 1			2238 1	{	
2243 1			2239 1	/* Mark this child */	
2244 1			2240 1	if ((nextChild->marked)	
2245 1			2241 1	{	
2246 1			2242 1	thisMark |= REST_MarkRestoreableObject {	
2247 1			2243 1	nextChild->restoreObject {	
2248 1			2244 1	nextChild->restoreObject,	
2249 1			2245 1	0,	
2250 1			2246 1	numberMarked,	
2251 1			2247 1	nextChild->restoreObject,	
2252 1			2248 1	0,	
2253 1			2249 1	nextChild->restoreObject,	
2254 1			2250 1	0,	
2255 1			2251 1	nextChild->restoreObject,	
2256 1			2252 1	0,	
2257 1			2253 1	nextChild->restoreObject,	
2258 1			2254 1	0,	
2259 1			2255 1	nextChild->restoreObject,	
2260 1			2256 1	0,	
2261 1			2257 1	nextChild->restoreObject,	
2262 1			2258 1	0,	
2263 1			2259 1	nextChild->restoreObject,	
2264 1			2260 1	0,	
2265 1			2261 1	nextChild->restoreObject,	
2266 1			2262 1	0,	
2267 1			2263 1	nextChild->restoreObject,	
2268 1			2264 1	0,	
2269 1			2265 1	nextChild->restoreObject,	
2270 1			2266 1	0,	
2271 1			2267 1	nextChild->restoreObject,	
2272 1			2268 1	0,	
2273 1			2269 1	nextChild->restoreObject,	
2274 1			2270 1	0,	
2275 1			2271 1	nextChild->restoreObject,	
2276 1			2272 1	0,	
2277 1			2273 1	nextChild->restoreObject,	
2278 1			2274 1	0,	
2279 1			2275 1	nextChild->restoreObject,	
2280 1			2276 1	0,	
2281 1			2277 1	nextChild->restoreObject,	
2282 1			2278 1	0,	

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2188 1	55R_Sprintf (outpstrng,	REST_UnmarkRestorableObject	2184	REST_MarkInfo
2189 3	REST_Converting (REST_UNABLE_TO_UNMARK,		2185	/* REST_MarkInfo	
2190 3	REST_GetObjSecFillName		2186	
	gREST_Handle, restoreObject);		2187	/* Description:	
2192 3	/* Display the error message */		2188	
2193 3	REST_DisplayErrorMessage ((WinPtr REST_RestoreWin,		2189	
2194 3	NULL,		2190	
2195 3	outpstrng,		2191	
2196 3	errmsg);		2192	
2197 2	}		2193	
2198 1	/* Return whether or not the object was unmarked */		2194	
2199 1	return (unmarked);		2195	
2200 1	}		2196	
2201 1			2197	
2282			2198	
2283			2199	
2284			2200	
2285			2201	
2286			2202	
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2293			2209	
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2300			2216	
2301			2217	
2302			2218	
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2304			2220	
2305			2221	
2306			2222	
2307			2223	
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2313			2229	
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2321			2237	
2322			2238	
2323			2239	
2324			2240	
2325			2241	
2326			2242	
2327			2243	
2328			2244	
2329			2245	
2330			2246	
2331			2247	
2332			2248	
2333			2249	
2334			2250	
2335			2251	
2336			2252	
2337			2253	
2338			2254	
2339			2255	
2340			2256	
2341			2257	
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2359			2275	

```

2445 5      /* Add in the number of bad files for this mark */
2446 5      *numberBad = *numberBad + thisBad;
2447 4      }
2448 4      /* Move on to the next child */
2449 4      nextChild = nextChild->next;
2450 2      }
2451 2      /* Update the mark flags for all objects */
2452 2      REST_UpdateObjFlags(currentWorkItemInfo);
2453 1      return (thisMark);
2454 1      }
2455 1
2456 1
2457 1
2458 1
2459 1

```

```

2461 1      /*
2462 1      * REST_UnmarkInfo
2463 1      * Description:
2464 1      * This routine will unmark the given info object
2465 1      * Parameters:
2466 1      * Info - The info object to unmark
2467 1      * Info - The info object to unmark
2468 1      * numberMarked - The number of bad files unmarked
2469 1      * numberBad - The number of bad files unmarked
2470 1      * Returns:
2471 1      * None.
2472 1      *
2473 1      *
2474 1      *
2475 1      */
2476 1      Boolean REST_UnmarkInfo(RestoreInfoPtr info,
2477 1      long
2478 1      long
2479 1      *numberMarked,
2480 1      *numberBad)
2481 1      {
2482 1      Boolean thisMark = BOOL_FALSE;
2483 1      /* Flag if this mark was successful */
2484 1      errno_t errno;
2485 1      /* Error status */
2486 1      time_t currentBackupTime;
2487 1      /* Time of the current backup */
2488 1      long thisBad = 0;
2489 1      /* Number of bad files in a mark */
2490 1      RestoreInfoPtr nextChild;
2491 1      /* Loop pointer to next object */
2492 1
2493 1      if (info != NULL)
2494 1      {
2495 1      /* Remove the item from the list */
2496 1      if ((info->marked) &&
2497 1      if ((info->type == REST_File) || (info->type == REST_Directory)))
2498 1      {
2499 1      /* Set the backup time to the current backup time */
2500 1      if ((errno = EDNRST_GetCurrentBackupTime(
2501 1      GREST_Handle, &currentBackupTime)) != 0)
2502 1      {
2503 1      /* Hmm... I guess we just use time zero */
2504 1      currentBackupTime = 0;
2505 1      }
2506 1      thisMark = REST_UnmarkRestoreObjInfo(info->restoreObjInfo,
2507 1      currentBackupTime,
2508 1      numberMarked,
2509 1      numberBad);
2510 1      }
2511 1      else if ((info->marked) && (info->type == REST_WorkItem))
2512 1      {
2513 1      /* Set the backup time to the current backup time */
2514 1      if ((errno = EDNRST_GetCurrentBackupTime(
2515 1      GREST_Handle, &currentBackupTime)) != 0)
2516 1      {
2517 1      /* Hmm... I guess we just use time zero */
2518 1      currentBackupTime = 0;
2519 1      }
2520 1      if (info->children == NULL)
2521 1      {
2522 1      /* Set the flag so that the objects aren't displayed */
2523 1      updateSpace = BOOL_TRUE;
2524 1      }
2525 1      /* Add the child objects */
2526 1      }
2527 1
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2520 4	REST_CreateInfoChilden (Info);	
2522 4	/* Set the flag back */	
2523 4	updateInfo = BOOL_FALSE;	
2524 3	}	
2526 3	/* Loop through and mark all the children */	
2527 3	nextChild = info->children;	
2528 3	while (nextChild != NULL)	
2529 4	{	
2530 4	/* Mark this child */	
2531 4	thisMark = REST_UmmarkRestoreObj (
2532 4	nextChild->restoreObject,	
2533 4	currentBackupTime,	
2534 4	numberMarked,	
2535 4	&thisMark);	
2536 4	/* Add in the number of bad files for this mark */	
2537 4	*numberBad = *numberBad + thisMark;	
2538 4	/* Move on to the next child */	
2539 4	nextChild = nextChild->next;	
2540 2	}	
2541 2	/* Update the mark flags for all objects */	
2542 2	REST_UpdateObjectMarks (currentWorkItemInfo);	
2543 2	}	
2544 2	return (thisMark);	
2545 1	}	
2546		

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2550	/*.....	
2551	* REST_Initiate	
2552	* Description:	
2553	* This routine will initialize all components of restore. It will	
2554	* load the window resources and set up all default values.	
2555	* Parameters:	
2556	* None.	
2557	* Returns:	
2558	* None.	
2559	*.....	
2560	void REST_Initiate (void)	
2561 1	{	
2562 1	REST_SortType sortType;	
2563 1	/* Initial sort type */	
2564 1	Sort	
2565 1	hostName;	
2566 1	/* Client string */	
2567 1	Char windowLabel[2 * GNX_HOSTNAME_LENGTH];	
2568 1	/* New window label */	
2569 1	/* Start off clean */	
2570 1	currentWorkItemInfo = NULL;	
2571 1	/* Initialize the option flags */	
2572 1	REST_ShowIdentifies = BOOL_TRUE;	
2573 1	REST_ShowBadfiles = BOOL_FALSE;	
2574 1	REST_MarkBadfiles = BOOL_FALSE;	
2575 1	/* Initialize the File Manager */	
2576 1	FMGR_Initiate ();	
2577 1	/* Load the restore window data */	
2578 1	REST_RestoreWinLoadInit ();	
2579 1	/* Get the string list of trail names */	
2580 1	REST_TrailNameList = (String*)REST_LoadInit (
2581 1	"restore", "TrailNames");	
2582 1	/* Set up the tabs */	
2583 1	REST_TabObject = GTK_ObjInit (REST_RestoreWin->tabsPanel);	
2584 1	GTK_AddPanelPair (REST_TabObject,	
2585 1	(GTK_Ptr)REST_RestoreWin->MainSummaryTab,	
2586 1	(GTK_Ptr)REST_RestoreWin->MediaSummaryPanel);	
2587 1	GTK_AddPanelPair (REST_TabObject,	
2588 1	(GTK_Ptr)REST_RestoreWin->MediaLab,	
2589 1	(GTK_Ptr)REST_RestoreWin->MediaPanel);	
2590 1	GTK_AddPanelPair (REST_TabObject,	
2591 1	(GTK_Ptr)REST_RestoreWin->ViewOptionsTab,	
2592 1	(GTK_Ptr)REST_RestoreWin->ViewOptionsPanel);	
2593 1	/* Get the icons used */	
2594 1	REST_ClientIcon = GICON_GetIconBySize (
2595 1	I_GENERICCLIENT, ICON_SMALL);	
2596 1	REST_FMWorKItemIcon = GICON_GetIconBySize (I_FILESYSM,	
2597 1	ICON_SMALL);	
2598 1	REST_FailedWorkItemIcon = GICON_GetIconBySize (
2599 1	I_UNUSED, WORKITEM, ICON_SMALL);	
2600 1	REST_DirclosedIcon = GICON_GetIconBySize (I_DIRCLOSED,	
2601 1	ICON_SMALL);	
2602 1	REST_DircopenIcon = GICON_GetIconBySize (I_DIR,	
2603 1	ICON_SMALL);	
2604 1	REST_FileIcon = GICON_GetIconBySize (I_FILE,	
2605 1	ICON_SMALL);	
2606 1	REST_BadIcon = GICON_GetIconBySize (I_CHECK,	
2607 1	ICON_SMALL);	
2608 1	REST_BadIcon = GICON_GetIcon (I_BADWORKOBJECT);	

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2609 1	REST_ExpiredIcon = GICON_GetIconBySize (I_ERROR, ICON_SMALL);	2655
2610 1	REST_DisplayingItemIcon = GICON_GetIconBySize (I_WARNING, ICON_SMALL);	2656
2611 1	REST_FailedIcon = GICON_GetIconBySize (I_ERROR, ICON_SMALL);	2657
2612 1	/* Initialize the other restore pieces */	2658
2613 1	REST_UntilInitialise ();	2659
2614 1	REST_PlatformInitialise ();	2660
2615 1	REST_SearchInitialise ();	2661
2616 1	REST_SemInitialise ();	2662
2617 1	/* Initialize the sort radio buttons to the initial sort type */	2663
2618 1	sortType = REST_GetSortType ();	2664
2619 1	switch (sortType)	2665
2620 1	{	2666
2621 2	case REST_BYNAME:	2667
2622 2	TButton REST_RestoreWin->NameSortButton, BOOL_TRUE);	2668
2623 2	break;	2669
2624 2	case REST_BYTYPE:	2670
2625 2	TButton REST_RestoreWin->TypeSortButton, BOOL_TRUE);	2671
2626 2	break;	2672
2627 2	case REST_BYDATE:	2673
2628 2	TButton REST_RestoreWin->DateSortButton, BOOL_TRUE);	2674
2629 2	break;	2675
2630 2	default:	2676
2631 2	TButton REST_RestoreWin->NameSortButton, BOOL_TRUE);	2677
2632 2	break;	2678
2633 2	case REST_BYSIZE:	2679
2634 2	TButton REST_RestoreWin->SizeSortButton, BOOL_TRUE);	2680
2635 2	break;	2681
2636 2	case REST_BYOWNER:	2682
2637 2	TButton REST_RestoreWin->OwnerSortButton, BOOL_TRUE);	2683
2638 2	break;	2684
2639 2	default:	2685
2640 2	TButton REST_RestoreWin->NameSortButton, BOOL_TRUE);	2686
2641 2	break;	2687
2642 2	/* Initialize the options to their initial states */	2688
2643 2	TButton REST_RestoreWin->HiddenButton,	2689
2644 2	REST_ShowHiddenFlag);	2690
2645 2	TButton REST_RestoreWin->BackupButton,	2691
2646 2	REST_ShowBackupFlag);	2692
2647 2	TButton REST_RestoreWin->MarkAddButton,	2693
2648 2	REST_MarkAddFlag);	2694
2649 2	/* Determine if we want to show the client name */	2695
2650 2	if (REST_RestoreFormClient)	2696
2651 2	hostname = REST_RestoreClient;	2697
2652 2	else	2698
2653 2	hostname = NULL;	2699
2654 2	/* Set the window and icon labels */	2700
2655 2	GUITL_SetWindowCaption (WIN_TITL, REST_RestoreWin, hostname);	2701
2656 2	GICON_GetIconBySize (I_ERROR, ICON_LARGE);	2702
2657 2	GUITL_SetIcon (I_ERROR, ICON_LARGE);	2703
2658 2	GUITL_SetIcon (I_WARNING, ICON_LARGE);	2704
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2907 2	GUITL_SetIcon (I_ERROR, ICON_LARGE);	2953
2908 2	GUITL_SetIcon (I_WARNING, ICON_LARGE);	2954
2909 2	GUITL_SetIcon (I_ERROR, ICON_LARGE);	2955
2910 2	GUITL_SetIcon (I_WARNING, ICON_LARGE);	2956
2911 2	GUITL_SetIcon (I_ERROR, ICON_LARGE);	2957
2912 2	GUITL_SetIcon (I_WARNING, ICON_LARGE);	2958
2913 2	GUITL_SetIcon (I_ERROR, ICON_LARGE);	2959
2914 2	GUITL_SetIcon (I_WARNING, ICON_LARGE);	2960
2915 2	GUITL_SetIcon (I_ERROR, ICON_LARGE);	2961
2916 2	GUITL_SetIcon (I_WARNING, ICON_LARGE);	2962
2917 2	GUITL_SetIcon (I_ERROR, ICON_LARGE);	2963
2918 2	GUITL_SetIcon (I_WARNING, ICON_LARGE);	2964
2919 2	GUITL_SetIcon (I_ERROR, ICON_LARGE);	2965
2920 2		

```

2726  /* .....
2727  * REST_ClearSession
2728  *
2729  * Description:
2730  * This routine will free up all memory and clear all lists
2731  * associated
2732  * with the current restore session. If the resetFlag is true,
2733  * then the
2734  * current marks will be unmarked. If False,
2735  * we are exiting so there is
2736  * no need.
2737  * Parameters:
2738  * resetFlag - flag if the session is being reset (versus exit)
2739  * Returns:
2740  * None.
2741  *
2742  * .....
2743  void REST_ClearSession (Boolean resetFlag)
2744  {
2745  /* RestoreInfoPtr thisInfo: /* Pointer to walk the list with */
2746  RestoreInfoPtr nextInfo: /* Next pointer in the list */
2747  *
2748  * If this is a reset operation, clear the marks and media */
2749  if (resetFlag)
2750  {
2751  /* Clear out the list boxes */
2752  REST_RemoveAllSelectedItems ();
2753  REST_RemoveAllMedia ();
2754  }
2755  /* Clear out the file manager */
2756  GFWGR.ClearAll (REST_GetParamContext());
2757  /* Free up each top level object (
2758  will recursively free up all children) */
2759  thisInfo = (RestoreInfoPtr) GFWGR.GetFirstChildObject (
2760  REST_GetParamContext());
2761  while (thisInfo != NULL)
2762  {
2763  nextInfo = thisInfo->next;
2764  REST_FreeInfo (thisInfo);
2765  thisInfo = nextInfo;
2766  }
2767  /* Finalize the restore process */
2768  GFWGR.Finish (GFWGR_JamId);
2769  GFWGR_JamId = NULL;
2770  /* Remove the search window if it is up */
2771  REST_SearchRemove ();
2772  }
2773  )
2774  )

```

```

2776  /* .....
2777  * REST_Remove
2778  *
2779  * Description:
2780  * This routine will remove the restore dialog from the display
2781  * after
2782  * verification with the user.
2783  * Parameters:
2784  * None.
2785  * Returns:
2786  * BOOL_TRUE - If the restore window was really removed
2787  * BOOL_FALSE - Otherwise
2788  *
2789  * .....
2790  Boolean REST_Remove (void)
2791  {
2792  WinPtr parent;
2793  Boolean OKToExit; /* Flag if user really wants to exit */
2794  *
2795  /* Don't allow exit if we're searching, or a restore is in progress */
2796  if (REST_SearchInProgress() || REST_RestoreInProgress())
2797  return (BOOL_FALSE);
2798  /* Use the restore window if it is currently visible */
2799  if (WIN_IsOpen (WinPtr)REST_RestoreWin))
2800  parent = (WinPtr)REST_RestoreWin;
2801  else
2802  parent = NULL;
2803  /* Verify that the user really wants to end the session */
2804  OKToExit = (GALERT_DisplayQuestion(parent,
2805  REST_GetInfoString(
2806  REST_WARNING_INDEX),
2807  GFWGR.GetQuestion(),
2808  REST_GetInfoString(
2809  "REST_Is_OK_TO_END",
2810  BOOL_FALSE)
2811  GALERT_Affirmative));
2812  /* If the user says so, go ahead with the termination */
2813  if (OKToExit)
2814  {
2815  REST_ClearSession (BOOL_FALSE);
2816  }
2817  return (OKToExit);
2818  )
2819  )
2820  )

```

```
2823 void REST_SignalHandler (int sig)
2824 {
2825     /* Clean up help */
2826     EIMHELP_End();
2827
2828     /* Call the generic signal handler to clean up */
2829     GUTIL_GenericSignalHandler(sig);
2830 }
2831
```


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GREST_GetPermissionsString	GREST_IsObjectMarkable
<pre> 129 3 { 130 3 returnString(6) = 'S'; 131 2 } 132 2 133 2 /* 134 2 * World bits 135 2 */ 136 2 137 2 if (0 != (mode & S_IROTH)) 138 3 { 139 3 returnString(7) = 'r'; 140 2 } 141 2 if (0 != (mode & S_IWOTH)) 142 3 { 143 3 returnString(8) = 'w'; 144 2 } 145 2 if (0 != (mode & S_IXOTH)) 146 3 { 147 3 if (0 == (mode & S_IXWX)) 148 4 { 149 4 returnString(9) = 'x'; 150 3 } 151 3 else 152 4 { 153 4 returnString(9) = 't'; 154 3 } 155 2 } 156 2 else if (0 != (mode & S_IXWX)) 157 3 { 158 3 returnString(9) = 't'; 159 2 } 160 2 /* silly mode #3 */ 161 2 } 162 2 returnString(10) = '\0'; 163 1 else 164 2 { 165 2 STR_Copy(returnString, ""); 166 1 } 167 1 return (returnString); 168 1 } 169 1 </pre>	<pre> 171 1 172 1 /* 173 1 * GREST_IsObjectMarkable 174 1 */ 175 1 176 1 * Description: 177 1 * This routine will determine if the given object is markable. 178 1 179 1 * Parameters: 180 1 * serverHandle (I) - The handle to the API 181 1 * object (I) - The object to check markability for 182 1 183 1 * Returns: 184 1 * BOOL_TRUE - If the object can be marked 185 1 * BOOL_FALSE - If the object cannot be marked 186 1 187 1 *****/ 188 1 189 1 BoolEnum GREST_IsObjectMarkable (serverHandle, 190 1 GREST_Object object) 191 1 { 192 1 boolean_t isMarkable = BOOL_FALSE; 193 1 if ((serverHandle != NULL) && (object != NULL)) 194 2 { 195 2 EDKREST_IsObjectMarkable (serverHandle, object, &isMarkable); 196 1 } 197 1 return (isMarkable); 198 1 } 199 1 </pre>
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```

200 BoolEnum GREST_IsObjectMarkedForTime (serverHandle handle,
201 GREST_Object obj,
202 time_t time,
203 pre_mark_time:
204 pre_value = BOOL_FALSE;
205 BoolEnum
206 flags;
207 )
208 {
209     if (GREST_GetSelected ((TmuPz)REST_RestoreWin-AllowPartialButton))
210     {
211         flags = BACKUP_SELECTION_FLAG_INITIAL_OK;
212     }
213     else
214     {
215         flags = BACKUP_SELECTION_FLAG_COMPLETE_ONLY;
216     }
217     /*
218      * Get the current backup time,
219      * used to push and pop current backup time.
220      */
221     if (E_SUCCESS != EDMRST_GetCurrentBackupTime (
222         handle, &pre_mark_time))
223     {
224         return (BOOL_FALSE);
225     }
226     /*
227      * Set backup to the desired backup time for marking.
228      */
229     if (pre_mark_time != ObjectTime)
230     {
231         if (E_SUCCESS != EDMRST_SetBackupForTime (
232             handle, ObjectTime, flags))
233         {
234             return (BOOL_FALSE);
235         }
236     }
237     /*
238      * Check if this object is markable
239      */
240     EDMRST_IsObjectMarkable (handle, thisObject, &retValue);
241     /*
242      * Reset to the pre-mark time.
243      */
244     if (pre_mark_time != ObjectTime)
245     {
246         EDMRST_SetBackupForTime (handle, pre_mark_time, flags);
247     }
248     return (retValue);
249 }
250 /*
251 * end of GREST_IsObjectMarkedForTime () */

```

```

254 BoolEnum GREST_IsObjectMarkedForTime (serverHandle handle,
255 GREST_Object obj,
256 time_t time,
257 pre_mark_time:
258 pre_value = BOOL_FALSE;
259 BoolEnum
260 flags;
261 )
262 {
263     if (GREST_GetSelected ((TmuPz)REST_RestoreWin-AllowPartialButton))
264     {
265         flags = BACKUP_SELECTION_FLAG_PARTIAL_OK;
266     }
267     else
268     {
269         flags = BACKUP_SELECTION_FLAG_COMPLETE_ONLY;
270     }
271     /*
272      * Get the current backup time,
273      * used to push and pop current backup time.
274      */
275     if (E_SUCCESS != EDMRST_GetCurrentBackupTime (
276         handle, &pre_mark_time))
277     {
278         return (BOOL_FALSE);
279     }
280     /*
281      * Set backup to the desired backup time for marking.
282      */
283     if (pre_mark_time != ObjectTime)
284     {
285         if (E_SUCCESS != EDMRST_SetBackupForTime (
286             handle, ObjectTime, flags))
287         {
288             return (BOOL_FALSE);
289         }
290     }
291     /*
292      * Check if this object is marked
293      */
294     EDMRST_IsObjectMarked (
295         handle, 1, objectArray, numChecked, markArray);
296     if (numChecked > 0)
297     {
298         retValue = BOOL_TRUE;
299     }
300     /*
301      * Reset to the pre-mark time.
302      */
303     if (pre_mark_time != ObjectTime)
304     {
305         EDMRST_SetBackupForTime (handle, pre_mark_time, flags);
306     }
307     return (retValue);
308 }
309 /*
310 * end of GREST_IsObjectMarkedForTime () */

```


Page 175 of 444	REST_UpdateDateButtons	Fri Jan 04 14:31:46 2008
129 1	boolean by status; /* Flag if calendar button should be enabled */	
130 1	boolean displayError = BOOL_FALSE; /* Return status from API */	
131 1	u_long flags;	
132 1		
133 1	if (GROUP_GetSelected ((WinPtr)REST_RestoreWin->AllowPartialButton))	
134 1	else	
135 1	flags = BACKUP_SELECTION_FLAG_PARTIAL_OK;	
136 1		
137 1	/* If there is a restore in progress, don't update anything */	
138 1	if (REST_RestoreInProgress ())	
139 1	return;	
140 1	/* Check to see if there is a previous backup */	
141 1	if (EMRST_IsTherePrevBackup (
142 1	EMRST_Handle, flags, &status) == E_SUCCESS)	
143 1		
144 2	{	
145 2	if (&status)	
146 3	{	
147 3	prevEnabled = BOOL_TRUE;	
148 3	}	
149 2	else	
150 3	{	
151 3	prevEnabled = BOOL_FALSE;	
152 2	}	
153 1		
154 1	else	
155 2	{	
156 2	displayError = BOOL_TRUE;	
157 2	prevEnabled = BOOL_TRUE;	
158 1	}	
159 2		
160 1	/* Check to see if there is a next backup */	
161 1	if (EMRST_IsThereNextBackup (
162 1	EMRST_Handle, 0, &status) == E_SUCCESS)	
163 2	{	
164 3	if (&status)	
165 3	{	
166 3	nextEnabled = BOOL_TRUE;	
167 3	}	
168 2	else	
169 3	{	
170 3	nextEnabled = BOOL_FALSE;	
171 2	}	
172 1	else	
173 2	{	
174 2	displayError = BOOL_TRUE;	
175 2	nextEnabled = BOOL_TRUE;	
176 1	}	
177 1	/* If there is either a prev or next backup, enable the calendar */	
178 1	calendarEnabled = (prevEnabled || nextEnabled);	
179 1		
180 1	/* Set the state of the previous button as determined */	
181 1	GUTTL_WGT_SetEnabled ((WinPtr)REST_RestoreWin->PrevBackupButton, prevEnabled);	
182 1		
183 1	/* Set the state of the next button as determined */	
184 1	GUTTL_WGT_SetEnabled ((
185 1	WinPtr)REST_RestoreWin->NextBackupButton, nextEnabled);	
186 1		
187 1	/* Set the state of the calendar button as determined */	
188 1	GUTTL_WGT_SetEnabled ((
189 1	WinPtr)REST_RestoreWin->CalendarButton, calendarEnabled);	
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190 1	if (displayError && !REST_IsReReadingInProgress ())	
191 2	{	
192 2	G_ALERT_DisplayError ((WinPtr)REST_RestoreWin,	
193 2	REST_GetErrorString (REST_WARNING_INDEX,	
194 2	GICON_GetWarning()),	
195 2	REST_GetErrorString (
196 1	REST_IS_PREV_NEXT_BACKUP_ERROR));	
197 1	}	
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```

199 /
200 * REST_SelectCurrentTemplate
201 *
202 * Description:
203 * This routine will select the current template in the template
204 * box.
205 *
206 * Parameters:
207 * None.
208 *
209 * Returns:
210 * None.
211 *
212 *
213
214 void REST_SelectCurrentTemplate (void)
215 {
216     setBoxByCode = BOOL_TRUE;
217     CBOX_Select (REST_NextWin->TemplateBox);
218     setBoxByCode = BOOL_FALSE;
219 }

```

```

221 /
222 * REST_SelectCurrentTrail
223 *
224 * Description:
225 * This routine will select the current trail in the primary
226 * box.
227 *
228 * Parameters:
229 * None.
230 *
231 * Returns:
232 * None.
233 *
234 *
235
236 void REST_SelectCurrentTrail (void)
237 {
238     setBoxByCode = BOOL_TRUE;
239     CBOX_Select (REST_NextWin->PrimaryBox);
240     setBoxByCode = BOOL_FALSE;
241 }

```

Page 179 of 444	REST_SelfOptionsVisibility	Fri Jan 04 14:31:46 2008	Page 180 of 444	REST_SelfTemplateBoxes	Fri Jan 04 14:31:46 2008
<pre>243 //..... 244 * REST_SelfOptionsVisibility 245 246 * Description: 247 * This routine will set the visibility status of the File System 248 * Backup options panel and its widgets. If the visibility passed 249 * is BOOL_TRUE it will enable all the widgets, if BOOL_FALSE it 250 * will disable and clear all the widgets. 251 252 * Parameters: 253 * visible (1) - Value of the visibility to set 254 * Returns: 255 * None. 256 257 *..... 258 259 void REST_SelfOptionsVisibility (Boolean visible) 260 { 261 /* If there is a restore in progress, don't update anything */ 262 if (REST_RestoreInProgress (1)) 263 return; 264 265 /* Set the enabling of the entire panel based on the given 266 * visibility */ 267 if (WGT_IsEnabled (1) 268 WgtPrjREST_RestoreWin->FgOptionsPanel) != visible) 269 WgtPrjREST_RestoreWin->FgOptionsPanel, visible); 270 271 /* If the visibility is false, clear the widgets */ 272 if (!visible) 273 { 274 /* Clear out any old Templates: */ 275 CBGX_GoFirst (REST_RestoreWin->TemplateBox); 276 while (CBGX_IsOK (REST_RestoreWin->TemplateBox)) 277 { 278 CBGX_GoFirst (REST_RestoreWin->TemplateBox); 279 CBX_RemoveAll (REST_RestoreWin->TemplateBox); 280 } 281 282 /* Clear out the old trails: */ 283 CBGX_GoFirst (REST_RestoreWin->PrimaryBox); 284 while (CBGX_IsOK (REST_RestoreWin->PrimaryBox)) 285 { 286 CBGX_GoFirst (REST_RestoreWin->PrimaryBox); 287 CBX_RemoveAll (REST_RestoreWin->PrimaryBox); 288 } 289 290 /* Clear the backup date */ 291 TED_SetStr ((TEDPtr) REST_RestoreWin->BackupDateText, ""); 292 293 TED_SetStr ((TEDPtr) REST_RestoreWin->BackupDateText, ""); 294 295 } 296 }</pre>	<pre>297 //..... 298 * REST_SelfTemplateBoxes 299 300 * Description: 301 * This routine will set the template and trail combo boxes to 302 * the given values. 303 304 * Parameters: 305 * None. 306 307 * Returns: 308 * None. 309 310 *..... 311 312 void REST_SelfTemplateBoxes (Str template, 313 Boolean alternate) 314 { 315 Boolean found = BOOL_FALSE; /* Flag for finding the template */ 316 317 /* Find the current template in the template box and select it */ 318 CBGX_GoFirst (REST_RestoreWin->TemplateBox); 319 while (!found && (CBGX_IsOK (REST_RestoreWin->TemplateBox))) 320 { 321 /* Use the label to determine if this is the current template */ 322 if (STR_Compare (REST_RestoreWin->TemplateBox) == 0) 323 { 324 /* This is the one, select it */ 325 REST_SelectCurrentTemplate (1); 326 found = BOOL_TRUE; 327 } 328 else 329 { 330 /* Not this one, try the next one */ 331 CBGX_GoNext (REST_RestoreWin->TemplateBox); 332 } 333 } 334 335 /* Select the first for primary or the second for the alternate */ 336 CBGX_GoFirst (REST_RestoreWin->PrimaryBox); 337 if (!alternate) 338 CBGX_GoNext (REST_RestoreWin->PrimaryBox); 339 REST_SetCurrentTrail (1); 340 341 }</pre>				
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```

333  /*.....
334  * REST_UpdateTemplateFromBoxes
335  *
336  * Description:
337  * This routine will update the current template based on the
338  * user selection of a new template/trail from the combo boxes.
339  * It will do nothing if this routine was called as a result of
340  * a function call to select a Chox Item (as long as the global
341  * selectbox/code variable was set to true).
342  *
343  * Parameters:
344  * None.
345  *
346  * Returns:
347  * None.
348  *
349  *.....
350  void REST_UpdateTemplateFromBoxes (void)
351  {
352  /* GETST_TemplateName currentTemplate; /* Current template name */
353  Boolean currentAlternateName; /* Current trail */
354  Boolean REST_TemplateName template; /* Template to set to */
355  Boolean alternate; /* Trail to set to */
356  Boolean errorno; /* Error status */
357  REST_Object objects[]; /* bogus buffer to get objects */
358  long cookie = INT_COOKIE; /* Ah, the magic cookie */
359  long numbriles;
360  /* remove search = BOOL_FALSE;
361  /* Should search be removed */
362  Boolean removeSearch = BOOL_FALSE;
363  /* Do nothing if this selection is due to code (
364  if (selectBoxCode)
365  return;
366  /* Process events to update the button while the user waits */
367  EVENT_ProcessPending ();
368  /* Get the current template we are using */
369  errorno = ERMNST_GetCurrentTemplate (GREST_Handle,
370  currentTemplate,
371  currentAlternate);
372  /* Get the selected template name */
373  if (GBOX_ChosenSelectLabel (REST_RestoreWin->TemplateBox) != NULL)
374  {
375  STR_Cpy (template, GBOX_ChosenSelectLabel {
376  REST_RestoreWin->TemplateBox});
377  else if (errorno == E_SUCCESS)
378  {
379  STR_Cpy (template, currentTemplate);
380  }
381  else
382  {
383  STR_Cpy (template, "");
384  }
385  /* Get the current value for the primary/alternate box */
386  if (GBOX_ChosenSelectLabel (REST_RestoreWin->PrimaryBox) == 1)
387  alternate = BOOL_TRUE;
388  else
389  alternate = BOOL_FALSE;
390  }

```

```

403  alternate = BOOL_TRUE;
404  /* If we have no current template or the template has changed */
405  if ((errorno != E_SUCCESS) ||
406  (STR_Cmp (template, currentTemplate) != CMP_EQUAL) ||
407  (alternate != currentAlternate))
408  {
409  /* If the search window is displayed, ask user first */
410  if (REST_SearchWindowDisplayed ())
411  {
412  if (GALERT_DisplayQuestion (WAlert REST_RestoreWin,
413  REST_GetOrderDialog {
414  REST_WARNING_INDEX,
415  GICON_GetWarning(),
416  REST_GetOrderDialog (SEARCH_WARNING),
417  BOOL_FALSE) == GALERT_Affirmative)
418  {
419  if (anything is marked, verify with user and unmark */
420  if (GBOX_ChosenSelectLabel (REST_RestoreWin->SelectBox) != NULL)
421  {
422  REST_SetTemplateBox (currentTemplate, currentAlternate);
423  /* Get out */
424  return;
425  }
426  }
427  /* If anything is marked, verify with user and unmark */
428  if (GBOX_ChosenSelectLabel (REST_RestoreWin->SelectBox) != NULL)
429  {
430  REST_SetTemplateBox (currentTemplate, currentAlternate);
431  /* Get out */
432  return;
433  }
434  /* We have marked items, ask user before switching */
435  if (GALERT_DisplayQuestion (WAlert REST_RestoreWin,
436  REST_GetOrderDialog {
437  REST_WARNING_INDEX,
438  GICON_GetWarning(),
439  REST_GetOrderDialog (REST_TEMP_SWITCH_WARNING),
440  BOOL_FALSE) == GALERT_Affirmative)
441  {
442  /* Set back to the original */
443  REST_SetTemplateBox (currentTemplate, currentAlternate);
444  /* Get out */
445  return;
446  }
447  /* Set the current template */
448  if ((currentWorkItemInfo != NULL) &&
449  (currentWorkItemInfo->restoreObject != NULL))
450  {
451  if ((errorno = ERMNST_SetTemplateLevelTemplate (GREST_Handle,
452  currentWorkItemInfo->restoreObject,
453  template,
454  alternate)) == 0)
455  {

```


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463 4	/* Remove the search dialog if necessary */	
464 4	if (removesearch)	
465 4	REST_SearchRemove (1);	
466 4	/* Create one object */	
467 4	EMRST_AllocatableObjects (GREST_Handle, objects, 1);	
468 4		
469 4	/* Attempt to get the object */	
470 4	if (!errorno = EMRST_GetRestoreableObject (GREST_Handle,	
471 4		
472 4	currentWorkItemInfo->restoreObject,	
473 4	MOD_INDEX,	
474 4	1	
475 4	objects,	
476 4	nummberies,	
477 4	cookies) == 0)	
478 5	{	
479 5	/* Update the date /	
480 5	this will re-read the work-item for us) */	
481 5	REST_UpdateBackupFile (1);	
482 5		
483 5	/* Clear out any selection data */	
484 5	REST_ClearObjectMarks (currentWorkItemInfo);	
485 5		
486 4	else	
487 5	{	
488 5	/* Go back to the original template/trail */	
489 5	EMRST_SetTemplate (GREST_Handle,	
490 5		
491 5	currentWorkItemInfo->restoreObject,	
492 5	currentTemplate,	
493 5	currentAlternate;	
494 5	/* Get one object to init the work-item */	
495 5	EMRST_GetRestoreableObject (GREST_Handle,	
496 5		
497 5	currentWorkItemInfo->restoreObject,	
498 5	MOD_INDEX,	
499 5	1,	
500 5	objects,	
501 5	nummberies,	
502 4	cookies);	
503 5	}	
504 5		
505 3	/* Free up the object */	
506 3	EMRST_FreeRestoreableObject (GREST_Handle, objects, 1);	
507 3		
508 3	if (errorno != 0)	
509 3	{	
510 4	Char outputString(2 * MAX_OBJECT_LENGTH);	
511 4	/* Error string to display */	
512 4		
513 4	/* All this, and we couldn't switch, what a shame */	
514 5	if (alternate)	
515 5	{	
516 5	STR_Sprintf (outputString,	
517 5	REST_GetErrorString (REST_TEMP_SWITCH_ERROR),	
518 5	(SET)STR_GetEnvStr (REST_TRAIL_INDEX),	
519 5	REST_ALTERNATE_TRAIL_INDEX,	
520 4	template);	
521 4	else	
522 5	{	
523 5	STR_Sprintf (outputString,	
524 5	REST_GetErrorString (REST_TEMP_SWITCH_ERROR),	
525 5	(SET)STR_GetEnvStr (REST_TRAIL_INDEX),	
526 5	REST_PRIMARY_TRAIL_INDEX,	
527 5	template);	
528 4	}	
529 4	REST_DisplayErrorMessage (WININT REST_SeatOrWin,	
530 4	NULL,	
531 4	outputString,	
532 4	errorno);	
533 4		
534 4	/*	
535 4	Unfortunately, it is too late to keep the current marks /	
536 4	* were any). I know,	
537 4	big suck. At least show that there are no	
538 4	* longer an marked objects to the user.	
539 4	*/	
540 4	REST_ClearObjectMarks (currentWorkItemInfo);	
541 4	gfhon_Display (REST_GetMsgContext(1));	
542 4		
543 4	/* Set back to the current template and trail */	
544 4	REST_SetTemplate (currentTemplate, currentAlternate);	
545 4		
546 3	}	
547 2	}	
548 1	}	
549 1	}	
550 1	}	
551 1	}	
552 1	}	
553 1	}	
554 1	}	
555 1	}	
556 1	}	
557 1	}	
558 1	}	
559 1	}	
560 1	}	
561 1	}	
562 1	}	
563 1	}	
564 1	}	
565 1	}	
566 1	}	
567 1	}	
568 1	}	
569 1	}	
570 1	}	
571 1	}	
572 1	}	
573 1	}	
574 1	}	
575 1	}	
576 1	}	
577 1	}	
578 1	}	
579 1	}	
580 1	}	
581 1	}	
582 1	}	
583 1	}	
584 1	}	
585 1	}	
586 1	}	
587 1	}	
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597 1	}	
598 1	}	
599 1	}	
600 1	}	
601 1	}	
602 1	}	
603 1	}	
604 1	}	
605 1	}	
606 1	}	
607 1	}	
608 1	}	
609 1	}	
610 1	}	

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524 5	REST_GetErrorString (REST_TEMP_SWITCH_ERROR),	
525 5	(SET)STR_GetEnvStr (REST_TRAIL_INDEX),	
526 5	REST_PRIMARY_TRAIL_INDEX,	
527 5	template);	
528 4	}	
529 4	REST_DisplayErrorMessage (WININT REST_SeatOrWin,	
530 4	NULL,	
531 4	outputString,	
532 4	errorno);	
533 4		
534 4	/*	
535 4	Unfortunately, it is too late to keep the current marks /	
536 4	* were any). I know,	
537 4	big suck. At least show that there are no	
538 4	* longer an marked objects to the user.	
539 4	*/	
540 4	REST_ClearObjectMarks (currentWorkItemInfo);	
541 4	gfhon_Display (REST_GetMsgContext(1));	
542 4		
543 4	/* Set back to the current template and trail */	
544 4	REST_SetTemplate (currentTemplate, currentAlternate);	
545 4		
546 3	}	
547 2	}	
548 1	}	
549 1	}	
550 1	}	
551 1	}	
552 1	}	
553 1	}	
554 1	}	
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608 1	}	
609 1	}	
610 1	}	

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640 2	REST_SetSearchVisibility (BOOL_FALSE);		
642 2	/* Update the partial backup button availability */		
643 2	REST_UpdatePartialButton ();		
645 2	/* We ain't working with a valid workitem any more */		
646 2	if (currentWorkitemInfo != NULL)		
647 3	{		
648 3	REST_ClearObjectMarks (currentWorkitemInfo);		
649 3	REST_ClearRestoreObjects (currentWorkitemInfo);		
650 3	currentWorkitemInfo = NULL;		
651 2	}		
653 1)		
655 1	/* Else if this is not the current client,		
656 1	check the work item status */		
657 2	else if (info->type != REST_Client)		
659 2	{		
660 2	/* Enable the path widget */		
661 2	GUII1_WGT_SearchEnabled ((
	WtPtr)REST_RestoreWin->PathArea, BOOL_TRUE);		
	GUII1_WGT_SearchEnabled ((
	WtPtr)REST_RestoreWin->PathArea, BOOL_TRUE);		
663 2	/* Keep a pointer to the original work item */		
664 2	originalWI = currentWorkitemInfo;		
666 2	/*		
667 2	* Update PS options		
668 2	*/		
670 2	/* Find the work-item for this object */		
671 2	tmpObject = info;		
672 2	while (!found) && (tmpObject != NULL)		
673 3	{		
674 3	if (tmpObject->type == REST_WorkItem)		
675 4	{		
676 4	if (currentWorkitemInfo != tmpObject)		
677 5	{		
678 5	currentWorkitemInfo = tmpObject;		
679 5	newWI = BOOL_TRUE;		
680 5	found = BOOL_TRUE;		
681 4	}		
682 3	else		
683 3	{		
684 4	tmpObject = tmpObject->parent;		
685 4	}		
686 3	}		
687 2	}		
689 2	/*		
690 2	* If there are no children for this workitem yet, get them		
691 2	*/		
692 2	if (currentWorkitemInfo->children == NULL)		
693 3	{		
694 3	REST_CreateInfoChildren (currentWorkitemInfo);		
695 2	}		
698 2	/*		
699 2	* If the workitem is a failed workitem,		
700 2	unset the current workitem		
701 2	*/		
702 2	if (currentWorkitemInfo->type == REST_FailedWorkItem)		
703 2	unset the current workitem		
704 2	*/		
705 2	if (currentWorkitemInfo->type == REST_FailedWorkItem)		
706 2	unset the current workitem		
707 2	*/		
708 3	{		
709 3	currentWorkitemInfo = NULL;		
710 3	}		
711 2	/* Show the file system work-item options panel if the WI is valid		
712 2	*/		
713 2	if ((currentWorkitemInfo != NULL) && (
714 3	currentWorkitemInfo->children != NULL))		
715 3	{		
716 3	REST_SetOptionsVisibility (BOOL_TRUE);		
717 3	REST_SetSearchVisibility (BOOL_TRUE);		
718 3	else		
719 3	{		
720 3	REST_SetOptionsVisibility (BOOL_FALSE);		
721 3	REST_SetSearchVisibility (BOOL_FALSE);		
722 2	}		
723 2	/* Update the partial backup button availability */		
724 2	REST_UpdatePartialButton ();		
725 2	/*		
726 2	* If the user has changed workitems we need to re-read the		
727 2	workitem		
728 2	* the user is now looking at since the old restorable objects are		
729 2	* no good.		
730 2	*/		
731 2	if (newWI)		
732 3	{		
733 3	/* Clean any existing data */		
734 3	if (originalWI != NULL)		
735 3	{		
736 3	/* Clear out any selection data */		
737 3	REST_ClearObjectMarks (originalWI);		
738 3	REST_ClearRestoreObjects (originalWI);		
739 3	}		
740 3	/* If the workitem is valid update the options */		
741 3	if (currentWorkitemInfo != NULL)		
742 4	{		
743 4	/* Update the date (this will re-read the work-item for us) */		
744 4	REST_UpdateBackupUpdate ();		
745 4	/* Display the new work-item data */		
746 4	REST_UpdateBackupTemplates (currentWorkitemInfo);		
747 4	}		
748 3	}		
749 2	}		
750 2	}		
Page 188 of 444		REST_UpdateBackupOptions	Fri Jan 04 14:31:46 2008
751 2	/*		
752 2	* If the user has changed workitems we need to re-read the		
753 2	workitem		
754 2	* the user is now looking at since the old restorable objects are		
755 2	* no good.		
756 2	*/		
757 2	if (newWI)		
758 3	{		
759 3	/* Clean any existing data */		
760 3	if (originalWI != NULL)		
761 3	{		
762 3	/* Clear out any selection data */		
763 3	REST_ClearObjectMarks (originalWI);		
764 3	REST_ClearRestoreObjects (originalWI);		
765 3	}		
766 3	/* If the workitem is valid update the options */		
767 3	if (currentWorkitemInfo != NULL)		
768 4	{		
769 4	/* Update the date (this will re-read the work-item for us) */		
770 4	REST_UpdateBackupUpdate ();		
771 4	/* Display the new work-item data */		
772 4	REST_UpdateBackupTemplates (currentWorkitemInfo);		
773 4	}		
774 3	}		
775 2	}		
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1000 2	}		

```

752  /*.....
753  * REST_OKToSwitchTimes
754  *
755  * Description:
756  * This routine determines if it is OK to switch backup times.
757  *
758  * Parameters:
759  * None.
760  *
761  * Returns:
762  * None.
763  *
764  */
765  static Boolean REST_OKToSwitchTimes (void)
766  {
767  Boolean okToSwitch = FALSE;
768  Boolean retVal = BOOL_TRUE;
769  }
770  /*
771  * See if it is OK to switch times and leave marks
772  */
773  {
774  if ((currentWorkItemInfo != NULL) &&
775      (EDMRST_GetBackupTimesSupport (GREST_Handle,
776      currentWorkItemInfo->responseObject,
777      &okToSwitch) == E_SUCCESS) &&
778      (okToSwitch != TRUE))
779  {
780  /* Check if there are any marks */
781  LBOX_GetInfo (REST_RestoreWin->SelectedListBox);
782  if (LBOX_GetGetClientData (
783      REST_RestoreWin->SelectedListBox) != NULL)
784  {
785  if (GALERT_DisplayQuestion ((WInput)REST_RestoreWin,
786      REST_GetErrorString (
787          REST_WARNING_INDEX),
788      GICON_GetWarning(),
789      REST_GetErrorString (
790          REST_SWITCH_TIMES_WARNING),
791      BOOL_FALSE) == DIALOGIT_AttrInactive)
792  {
793  /* Clear out any selection data */
794  REST_ClearObjectMarks (currentWorkItemInfo);
795  retVal = BOOL_TRUE;
796  }
797  else
798  {
799  retVal = BOOL_FALSE;
800  }
801  }
802  }
803  return (retVal);

```

```

805  /*.....
806  * REST_PreviousSelect
807  *
808  * Description:
809  * This routine handles the user selection of the previous backup
810  * button.
811  *
812  * Parameters:
813  * None.
814  *
815  * Returns:
816  * None.
817  *
818  */
819  void REST_PreviousSelect (void)
820  {
821  Boolean okToSwitch = FALSE;
822  Boolean retVal = BOOL_TRUE;
823  }
824  /*
825  * Verify it is OK to switch times */
826  if ((REST_OKToSwitchTimes ()
827      != TRUE))
828  {
829  if (GALERT_GetSelected ((WInput)REST_RestoreWin->AllowPreviousButton))
830  {
831  /* Try to get a previous backup */
832  if ((EDMRST_GetPreviousBackup (GREST_Handle, flags) == 0)
833      && (EDMRST_GetPreviousBackup (GREST_Handle, flags) == 0))
834  {
835  /* Got the previous backup, update the date */
836  REST_UpdateBackupDate ();
837  }
838  else
839  {
840  REST_DisplayErrorMessage ((WInput)REST_RestoreWin,
841      NULL,
842      REST_GetErrorString (
843          REST_PREV_BACKUP_ERROR),
844      errorno);
845  }
846  }
847  }

```

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849*/	833*/
850	* REST_NextButtonSelect	834	* REST_CalendarButtonSelect
851	* Description:	835	* Description:
852	* This routine handles the user selection of the next backup button.	836	* This routine handles the user selection of the backup calendar
853	* Parameters:	837	* button.
854	* None.	838	* It will display the restoral calendar,
855	* Returns:	839	showing the available backup
856	* None.	840	* date/times.
857	* Parameters:	841	* Parameters:
858	* None.	842	* None.
859	* Returns:	843	* Returns:
860	* None.	844	* None.
861*/	845*/
862	void REST_NextButtonSelect (void)	846	void REST_CalendarButtonSelect (void)
863	{	847	{
864	errorno_t errorno; /* Error status */	848	time_t oldtime; /* The current backup time */
865	long flags;	849	time_t newtime; /* The user selected backup time */
866	0, long	850	errorno_t errorno; /* Error status */
867	/* Verify if it is OK to switch times */	851	long flags;
868	if (!REST_OKToSwitchTimes ())	852	if (!REST_OKToSwitchTimes ())
869	return;	853	return;
870	if (!TRUP_GetSelected ((TRUPtr)REST_RestoreWin->AllowPartialButton))	854	if (!TRUP_GetSelected ((TRUPtr)REST_RestoreWin->AllowPartialButton))
871	flags = BACKUP_SELECTION_FLAG_PARTIAL_OK;	855	else
872	flags = BACKUP_SELECTION_FLAG_COMPLETE_ONLY;	856	flags = BACKUP_SELECTION_FLAG_COMPLETE_ONLY;
873	/* Try to get a next backup */	857	if (flags = BACKUP_SELECTION_FLAG_PARTIAL_OK;
874	if (!errorno = EDNRST_SectNextBackup (GREST_Handle, flags) == 0)	858	else
875	{	859	flags = BACKUP_SELECTION_FLAG_COMPLETE_ONLY;
876	/* Get the previous backup, update the date */	860	if (flags = BACKUP_SELECTION_FLAG_COMPLETE_ONLY;
877	REST_UpdateBackupDate ();	861	else
878	else	862	if (flags = BACKUP_SELECTION_FLAG_PARTIAL_OK;
879	REST_DisplayErrorMessage ((WinPtr)REST_RestoreWin,	863	else
880	NULL,	864	REST_SelectionFlagCompleteOnly;
881	REST_GetErrorString (865	errorno);
882	REST_NextBackup_Backup_Error,	866	}
883	errorno);	867	
884	}	868	
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845	/*.....*	
846	* REST_NextButtonSelect	
847	* Description:	
848	* This routine handles the user selection of the next backup button.	
849	* Parameters:	
850	* None.	
851	* Returns:	
852	* None.	
853	* Parameters:	
854	* None.	
855	* Returns:	
856	* None.	
857	* Parameters:	
858	* None.	
859	* Returns:	
860	* None.	
861	* Parameters:	
862	* None.	
863	void REST_NextButtonSelect (void)	
864	{	
865	EDNRST_LY EDNRST; /* Error status */	
866	u_long	
867	flags;	
868	/* Verify it is OK to switch times */	
869	if (!REST_OKTOSwitchTimes ())	
870	return;	
871	if (TRBUT_GetSelected ((TRBUTPtr)REST_RestoreWin-AllowPartialButton))	
872	flags = BACKUP_SELECTION_FLAG_PARTIAL_OK;	
873	else	
874	flags = BACKUP_SELECTION_FLAG_COMPLETE_ONLY;	
875	/* Try to get a next backup */	
876	if (! (EDNRST = EDNRST_SetNextBackup (GREST_Handle, flags) == 0))	
877	return;	
878	/* Got the previous backup, update the date */	
879	REST_UpdateBackupDate ();	
880	else	
881	REST_DisplayErrorMessage ((WinPtr)REST_RestoreWin,	
882	NULL,	
883	REST_GetErrorString (
884	REST_NEXT_BACKUP_ERROR,	
885	EDNRST);	
886	}	
887	}	
888		
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906		
907		
908		
909	void REST_CalendarButtonSelect (void)	
910	{	
911	oldtime; /* The current backup time */	
912	time_t	
913	newtime; /* The user selected backup time */	
914	EDNRST_LY EDNRST; /* Error status */	
915	u_long	
916	flags;	
917	if (TRBUT_GetSelected ((TRBUTPtr)REST_RestoreWin-AllowPartialButton))	
918	flags = BACKUP_SELECTION_FLAG_PARTIAL_OK;	
919	else	
920	flags = BACKUP_SELECTION_FLAG_COMPLETE_ONLY;	
921	/* Get the current backup time */	
922	EDNRST_GetCurrentBackupTime (GREST_Handle, &oldtime);	
923	/* Get the user selected backup time */	
924	newtime = REST_GetUserSelectedTime (
925	currentWorkItemInfo->restorableObj,	
926	oldtime,	
927	(WinPtr)REST_RestoreWin);	
928	/* If the user picked a different time */	
929	if (! (newtime != 0) && (oldtime != newtime))	
930	return;	
931	/* Verify it is OK to switch times */	
932	if (!REST_OKTOSwitchTimes ())	
933	return;	
934	/* Get the new backup */	
935	if (! (EDNRST = EDNRST_SetBackupForTime (
936	GREST_Handle, newtime, flags) == 0))	
937	return;	
938	/* Update the backup date */	
939	if (currentWorkItemInfo != NULL)	
940	{	
941	REST_UpdateBackupDate ();	
942	}	
943	else	
944	{	
945	Char outputString[2 * MAX_OBJECT_LENGTH]; /* Error string */	
946	/* Unable to set to the backup selected */	
947	sprintf (outputString,	
948	REST_GetErrorString (
949	950	
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Page 193 of 444	REST_NextButtonSelect	Fri Jan 04 14:31:46 2008
883	
884	/* REST_NextButtonSelect	
885	.....
886	/* Description:	
887	* This routine handles the user selection of the next backup button.	
888	.....
889	* Parameters:	
890	* None.	
891	.....
892	* Returns:	
893	* None.	
894	.....
895	void REST_NextButtonSelect (void)	
896	{	
897	errno_t errno; /* Error status */	
898	ulong flags;	
899	/* Verify it is OK to switch times */	
900	if (!REST_OKToSwitchTimes ())	
901	return;	
902	if (!REST_GetSelected ((TBU_Ptr)REST_RestoreWin-AllowPartialButton))	
903	flags = BACKUP_SELECTION_FLAG_PARTIAL_OK;	
904	else	
905	flags = BACKUP_SELECTION_FLAG_COMPLETE_ONLY;	
906	/* Try to get a next backup */	
907	if (! (errno = EDNRST_SetNextBackup (GREST_Handle, flags) == 0))	
908	/* Got the previous backup, update the date */	
909	REST_UpdateBackupDate ();	
910	} else	
911	REST_DisplayErrorMessage ((WinPtr)REST_RestoreWin,	
912	NULL,	
913	REST_GetErrorString (
914	REST_NEXT_BACKUP_ERROR,	
915	errno);	
916	}	
917	}	
918		
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Page 192 of 444	REST_CalendarButtonSelect	Fri Jan 04 14:31:46 2008
883	
884	/* REST_CalendarButtonSelect	
885	.....
886	/* Description:	
887	* This routine handles the user selection of the backup calendar	
888	* button.	
889	* It will display the restoral calendar,	
890	* showing the available backup	
891	* date/times.	
892	* Parameters:	
893	* None.	
894	.....
895	* Returns:	
896	* None.	
897	.....
898	void REST_CalendarButtonSelect (void)	
899	{	
900	oldtime; /* The current backup time */	
901	time_t newtime; /* The user selected backup time */	
902	errno_t errno; /* Error status */	
903	ulong flags;	
904	if (!REST_GetSelected ((TBU_Ptr)REST_RestoreWin-AllowPartialButton))	
905	flags = BACKUP_SELECTION_FLAG_PARTIAL_OK;	
906	else	
907	flags = BACKUP_SELECTION_FLAG_COMPLETE_ONLY;	
908	/* Get the current backup time */	
909	EDNRST_GetCurrentBackupTime (GREST_Handle, &oldtime);	
910	/* Get the user selected backup time */	
911	newtime = REST_GetUserSelectedTime (
912	currentWorkItemInfo->restorableObj,	
913	(WinPtr)REST_RestoreWin;	
914	oldtime,	
915	/* If the user picked a different time */	
916	if (! (newtime == 0) && (oldtime != newtime))	
917	{	
918	/* Verify it is OK to switch times */	
919	if (!REST_OKToSwitchTimes ())	
920	return;	
921	/* Get the new backup */	
922	if (! (errno = EDNRST_SetBackupForTime (
923	GREST_Handle, newtime, flags) == 0))	
924	{	
925	/* Update the backup date */	
926	if (currentWorkItemInfo != NULL)	
927	{	
928	REST_UpdateBackupDate ();	
929	}	
930	else	
931	Char outputString[2 * MAX_OBJECT_LENGTH]; /* Error string */	
932	/* Unable to set to the backup selected */	
933	sprintf (outputString,	
934	REST_GetErrorString (
935	{	

```

954 3      REST_CalendarButtonSelect (REST_BACKUP_TIME_SWITCH_ERROR),
955 3      REST_DisplayErrorMessage ("Invalid REST_MemorizeIn,
956 3      NIL);
957 3      outputString,
958 3      errMsg);
959 2      }
960 1      }
961

```

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963
964 //*****
965 * REST_CompareProc
966 *
967 * Description:
968 * This routine is provided to the generic sort routine to compare
969 * two items.
970 *
971 * Parameters:
972 * item1 (I) - The first item to compare
973 * item2 (I) - The second item to compare
974 *
975 * Returns:
976 * None.
977
978 *****/
979 static CmpBnum REST_CompareProc (void *item1,
980 void *item2)
981 {
982     RestoreInfoFor info1;
983     RestoreInfoFor info2;
984     CmpBnum retVal;
985
986     info1 = (RestoreInfoFor)item1;
987     info2 = (RestoreInfoFor)item2;
988
989     if (REST_IsLessThan (info1, info2))
990     {
991         retVal = CMP_UNDER;
992     }
993     else
994     {
995         retVal = CMP_OVER;
996     }
997     return (retVal);
998 }
999

```

Page 196 of 444	REST_GetNextProc	Fri Jan 04 14:31:46 2008	Page 196 of 444	REST_GetNextAddressProc	Fri Jan 04 14:31:46 2008
997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028	<pre>/* * REST_GetNextProc * * Description: * This routine is provided to the generic sort routine to get * the next restore info pointer from the given item. * * Parameters: * Item (I) - The item to get the next item from * * Returns: * The next item in the list. */ static void *REST_GetNextProc (void *item) { RestoreInfoPtr info; RestoreInfoPtr nextInfo; if (item != NULL) { info = (RestoreInfoPtr)item; nextInfo = info->next; } else { nextInfo = NULL; } return ((void *)nextInfo); }</pre>	1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028	<pre>/* * REST_GetNextAddressProc * * Description: * This routine is provided to the generic sort routine to get * the address of the next field from the given item. * * Parameters: * Item (I) - The item to get the address of the next field from * * Returns: * The address of the next field for the given item. */ static void *REST_GetNextAddressProc (void *item) { RestoreInfoPtr info; void *retAddress; if (item != NULL) { info = (RestoreInfoPtr)item; retAddress = &(info->next); } else { retAddress = NULL; } return (retAddress); }</pre>	1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221 1222 1223 1224 1225 1226 1227 1228 1229 1230 1231 1232 1233 1234 1235 1236 1237 1238 1239 1240 1241 1242 1243 1244 1245 1246 1247 1248 1249 1250 1251 1252 1253 1254 1255 1256 1257 1258 1259 1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 1300 1301 1302 1303 1304 1305 1306 1307 1308 1309 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 1320 1321 1322 1323 1324 1325 1326 1327 1328 1329 1330 1331 1332 1333 1334 1335 1336 1337 1338 1339 1340 1341 1342 1343 1344 1345 1346 1347 1348 1349 1350 1351 1352 1353 1354 1355 1356 1357 1358 1359 1360 1361 1362 1363 1364 1365 1366 1367 1368 1369 1370 1371 1372 1373 1374 1375 1376 1377 1378 1379 1380 1381 1382 1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393 1394 1395 1396 1397 1398 1399 1400 1401 1402 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Page 199 of 444	REST_SortOn	Fri Jan 04 14:31:46 2008
1199	/*.....	
1140	* REST_GetSort	
1141	*****	
1142	* Description:	
1143	* This routine will sort the current sort and update the order of	
1144	* the children currently displayed.	
1145	*****	
1146	* Parameters:	
1147	* sortType (I) - The type of sort to perform.	
1148	*****	
1149	* Returns:	
1150	* None.	
1151	*****	
1152	void REST_GetSort (REST_SortType sortType)	
1153	{	
1154	RestoreInfoPtr info; /* Pointer to walk the object list with */	
1155	/* Object found which is currently selected */	
1156	RestoreInfoPtr foundInfo;	
1157	/* Freeze the file manager display to avoid major flickering */	
1158	GFMGR_FreezeDisplay (REST_GetMgrContext());	
1159	/* Flag that we are sorting */	
1160	REST_SetKeepInProgress (BOOL_TRUE);	
1161	/* Set the current sort type */	
1162	REST_CurrentSort = sortType;	
1163	/* Walk all the objects and sort the children */	
1164	info = (RestoreInfoPtr) GFMGR_GetVerifyFirstChild (
1165	REST_GetMgrContext());	
1166	while (info != NULL)	
1167	{	
1168	/* Sort the children of this object */	
1169	REST_SortChildren (info);	
1170	/* Tell the file manager that the children have been updated */	
1171	GFMGR_UpdateChildren (REST_GetMgrContext(), info);	
1172	/* Move to the next object */	
1173	info = info->next;	
1174	}	
1175	/* Select the object which should be currently selected */	
1176	foundInfo = REST_FindSelectedObject (
1177	info->foundInfo);	
1178	if (foundInfo != NULL)	
1179	{	
1180	GFMGR_SelectObject (REST_GetMgrContext(),	
1181	(GFMGR_Object)foundInfo,	
1182	BOOL_FALSE);	
1183	REST_SetSelectedString (REST_GetFullName(foundInfo));	
1184	}	
1185	/* Update the file manager's display */	
1186	GFMGR_Display (REST_GetMgrContext());	
1187	/* Flag that we are no longer sorting */	
1188	REST_SetKeepInProgress (BOOL_FALSE);	
1189	}	
1190		

Page 200 of 444	REST_GetSort	Fri Jan 04 14:31:46 2008
1201	/*.....	
1202	* REST_GetSort	
1203	*****	
1204	* Description:	
1205	* This routine will return the current sort type.	
1206	*****	
1207	* Parameters:	
1208	* None.	
1209	* Returns:	
1210	* The type of sort to perform.	
1211	*****	
1212	REST_SortType REST_GetSort (void)	
1213	{	
1214	/* Return the current sort type */	
1215	return (REST_CurrentSort);	
1216	}	
1217		

```

1221 //.....
1222 * REST_UpdateViewOptions
1223 *
1224 * Description:
1225 * This routine will update the display to the current display
1226 * options (show hidden files, etc...).
1227 *
1228 * Parameters:
1229 * None.
1230 *
1231 * Returns:
1232 * None.
1233 *
1234 *.....
1235 void REST_UpdateViewOptions (void)
1236 {
1237     RestoreInfo* info; /* Pointer to walk the list with */
1238     RestoreInfo* foundinfo; /* Pointer to found object which is selected */
1239     /* No need to do anything if there is no current work item */
1240     if (currentWorkItemInfo != NULL)
1241     {
1242         /* Freeze the file manager display to avoid major flickering */
1243         GPMGR_FreezeDisplay (REST_GetMgrContext());
1244         /* Play that we are updating current children */
1245         REST_SetReadInProgress (BOOL_TRUE);
1246         while (info != NULL)
1247         {
1248             /* Walk the current list of objects */
1249             REST_GetMgrContext();
1250             info = (RestoreInfo*) GPMGR_GetFilterObject (
1251                 while (info != NULL)
1252                 {
1253                     /* Update the children */
1254                     GPMGR_UpdateChildren (REST_GetMgrContext(), info);
1255                     /* Go to the next object */
1256                     info = info->next;
1257                 }
1258             /* Select the object which should be currently selected */
1259             foundinfo = REST_FindSelectionString ();
1260             if (foundinfo != NULL)
1261             {
1262                 GPMGR_SelectObject (REST_GetMgrContext(),
1263                                     foundinfo,
1264                                     BOOL_FALSE);
1265                 REST_SetSelectionString (REST_GetFullName(foundinfo));
1266             }
1267             /* Update the file manager's display */
1268             GPMGR_Display (REST_GetMgrContext());
1269             /* Play that we are no longer updating current children */
1270             REST_SetReadInProgress (BOOL_FALSE);
1271             /* Update the date buttons since we may have changed offsite
1272              * status */
1273             REST_UpdateDateButtons ();
1274         }
1275     }
1276 }

```

```

1282 //.....
1283 * REST_UpdateRemoveButtons
1284 *
1285 * Description:
1286 * This routine will sensitize and desensitize the remove buttons.
1287 *
1288 * Parameters:
1289 * None.
1290 *
1291 * Returns:
1292 * None.
1293 *
1294 *.....
1295 void REST_UpdateRemoveButtons (void)
1296 {
1297     /* If there is a restore in progress, don't update anything */
1298     if (REST_ReadInProgress ())
1299     {
1300         return;
1301     }
1302     /* If there are any marked items, sensitize the remove all button */
1303     GUTIL_Mgr_SetEnabled (WMPIPR|REST_RestoreWin->ClearButton,
1304                          LBOX_GoAllOfFirst (
1305                              REST_RestoreWin->SelectedListBox));
1306     /* If there are any marked items sensitize the start button */
1307     GUTIL_Mgr_SetEnabled (WMPIPR|REST_RestoreWin->StartButton,
1308                          LBOX_GoAllOfFirst (
1309                              REST_RestoreWin->SelectedListBox));
1310     /* If there are any selected marked items, sensitize the remove button */
1311     GUTIL_Mgr_SetEnabled (WMPIPR|REST_RestoreWin->RemoveButton,
1312                          LBOX_GoSelectedListBox (
1313                              REST_RestoreWin->SelectedListBox));
1314 }

```

Page 200 of 444	REST_MarkBackupsItems	Fri Jan 04 14:31:46 2008
<pre> 1316 /*..... 1317 * REST_MarkBackupItems 1318 1319 * Description: 1320 * This routine will mark objects selected in the file manager list box. 1321 1322 * Parameters: 1323 * None. 1324 1325 * Returns: 1326 * None. 1327 1328 *..... 1329 1330 void REST_MarkBackupItems (void) 1331 { 1332 RestoreInfoPtr info; /* Next object to mark */ 1333 BOOL bInRM marked = BOOL_FALSE; /* Flag if anything was marked */ 1334 BOOL bInRM numbered = 0; /* Number of bad files marked */ 1335 long numbered = 0; /* Number of objects marked */ 1336 long long 1337 1338 /* This may take a while so display a wait cursor */ 1339 WGT_UseWaitCursor (WGT_Ptr(REST_RestoreWin)); 1340 1341 /* Select all items that are highlighted */ 1342 info=(RestoreInfoPtr)GPNR_GetFirstSelectedBoxObject(1343 REST_GetPgrContext()); 1344 while (info != NULL) 1345 { 1346 /* If this is a different workitem */ 1347 if (info->type == REST_WorkItem) 1348 { 1349 if (REST_VerifySelection (REST_GetPgrContext(), 1350 info, 1351 BOOL_FALSE, 1352 BOOL_FALSE)) 1353 { 1354 /* Select the work item. 1355 * This causes it to be selected in the SArea 1356 * which isn't really the desired result, but we have to have the 1357 * workitem in the SArea in order to continue 1358 */ 1359 GPNR_SelectObject (REST_GetPgrContext(), 1360 (GPNR_Object)info, 1361 BOOL_TRUE); 1362 } 1363 else 1364 { 1365 return; 1366 } 1367 } 1368 marked = REST_MarkInfo (info, numbered, numbered); 1369 1370 /* get the next selected row */ 1371 info=(RestoreInfoPtr)GPNR_GetNextSelectedBoxObject(1372 REST_GetPgrContext()); 1373 } 1374 /* If anything was marked </pre>	<pre> 1375 1 1376 2 1377 3 1378 4 1379 5 1380 6 1381 7 1382 8 1383 9 1384 10 1385 11 1386 12 1387 13 1388 14 1389 15 1390 16 1391 17 1392 18 1393 19 1394 20 1395 21 1396 22 1397 23 1398 24 1399 25 1400 26 1401 27 1402 28 1403 29 1404 30 1405 31 1406 32 1407 33 1408 34 1409 35 1410 36 1411 37 1412 38 1413 39 1414 40 1415 41 1416 42 1417 43 1418 44 1419 45 1420 46 1421 47 1422 48 1423 49 1424 50 1425 51 1426 52 1427 53 1428 54 1429 55 1430 56 1431 57 1432 58 1433 59 1434 60 1435 61 1436 62 1437 63 1438 64 1439 65 1440 66 1441 67 1442 68 1443 69 1444 70 1445 71 1446 72 1447 73 1448 74 1449 75 1450 76 1451 77 1452 78 1453 79 1454 80 1455 81 1456 82 1457 83 1458 84 1459 85 1460 86 1461 87 1462 88 1463 89 1464 90 1465 91 1466 92 1467 93 1468 94 1469 95 1470 96 1471 97 1472 98 1473 99 1474 100 1475 101 1476 102 1477 103 1478 104 1479 105 1480 106 1481 107 1482 108 1483 109 1484 110 1485 111 1486 112 1487 113 1488 114 1489 115 1490 116 1491 117 1492 118 1493 119 1494 120 1495 121 1496 122 1497 123 1498 124 1499 125 1500 126 1501 127 1502 128 1503 129 1504 130 1505 131 1506 132 1507 133 1508 134 1509 135 1510 136 1511 137 1512 138 1513 139 1514 140 1515 141 1516 142 1517 143 1518 144 1519 145 1520 146 1521 147 1522 148 1523 149 1524 150 1525 151 1526 152 1527 153 1528 154 1529 155 1530 156 1531 157 1532 158 1533 159 1534 160 1535 161 1536 162 1537 163 1538 164 1539 165 1540 166 1541 167 1542 168 1543 169 1544 170 1545 171 1546 172 1547 173 1548 174 1549 175 1550 176 1551 177 1552 178 1553 179 1554 180 1555 181 1556 182 1557 183 1558 184 1559 185 1560 186 1561 187 1562 188 1563 189 1564 190 1565 191 1566 192 1567 193 1568 194 1569 195 1570 196 1571 197 1572 198 1573 199 1574 200 1575 201 1576 202 1577 203 1578 204 1579 205 1580 206 1581 207 1582 208 1583 209 1584 210 1585 211 1586 212 1587 213 1588 214 1589 215 1590 216 1591 217 1592 218 1593 219 1594 220 1595 221 1596 222 1597 223 1598 224 1599 225 1600 226 1601 227 1602 228 1603 229 1604 230 1605 231 1606 232 1607 233 1608 234 1609 235 1610 236 1611 237 1612 238 1613 239 1614 240 1615 241 1616 242 1617 243 1618 244 1619 245 1620 246 1621 247 1622 248 1623 249 1624 250 1625 251 1626 252 1627 253 1628 254 1629 255 1630 256 1631 257 1632 258 1633 259 1634 260 1635 261 1636 262 1637 263 1638 264 1639 265 1640 266 1641 267 1642 268 1643 269 1644 270 1645 271 1646 272 1647 273 1648 274 1649 275 1650 276 1651 277 1652 278 1653 279 1654 280 1655 281 1656 282 1657 283 1658 284 1659 285 1660 286 1661 287 1662 288 1663 289 1664 290 1665 291 1666 292 1667 293 1668 294 1669 295 1670 296 1671 297 1672 298 1673 299 1674 300 1675 301 1676 302 1677 303 1678 304 1679 305 1680 306 1681 307 1682 308 1683 309 1684 310 1685 311 1686 312 1687 313 1688 314 1689 315 1690 316 1691 317 1692 318 1693 319 1694 320 1695 321 1696 322 1697 323 1698 324 1699 325 1700 326 1701 327 1702 328 1703 329 1704 330 1705 331 1706 332 1707 333 1708 334 1709 335 1710 336 1711 337 1712 338 1713 339 1714 340 1715 341 1716 342 1717 343 1718 344 1719 345 1720 346 1721 347 1722 348 1723 349 1724 350 1725 351 1726 352 1727 353 1728 354 1729 355 1730 356 1731 357 1732 358 1733 359 1734 360 1735 361 1736 362 1737 363 1738 364 1739 365 1740 366 1741 367 1742 368 1743 369 1744 370 1745 371 1746 372 1747 373 1748 374 1749 375 1750 376 1751 377 1752 378 1753 379 1754 380 1755 381 1756 382 1757 383 1758 384 1759 385 1760 386 1761 387 1762 388 1763 389 1764 390 1765 391 1766 392 1767 393 1768 394 1769 395 1770 396 1771 397 1772 398 1773 399 1774 400 1775 401 1776 402 1777 403 1778 404 1779 405 1780 406 1781 407 1782 408 1783 409 1784 410 1785 411 1786 412 1787 413 1788 414 1789 415 1790 416 1791 417 1792 418 1793 419 1794 420 1795 421 1796 422 1797 423 1798 424 1799 425 1800 426 1801 427 1802 428 1803 429 1804 430 1805 431 1806 432 1807 433 1808 434 1809 435 1810 436 1811 437 1812 438 1813 439 1814 440 1815 441 1816 442 1817 443 1818 444 1819 445 1820 446 1821 447 1822 448 1823 449 1824 450 1825 451 1826 452 1827 453 1828 454 1829 455 1830 456 1831 457 1832 458 1833 459 1834 460 1835 461 1836 462 1837 463 1838 464 1839 465 1840 466 1841 467 1842 468 1843 469 1844 470 1845 471 1846 472 1847 473 1848 474 1849 475 1850 476 1851 477 1852 478 1853 479 1854 480 1855 481 1856 482 1857 483 1858 484 1859 485 1860 486 1861 487 1862 488 1863 489 1864 490 1865 491 1866 492 1867 493 1868 494 1869 495 1870 496 1871 497 1872 498 1873 499 1874 500 1875 501 1876 502 1877 503 1878 504 1879 505 1880 506 1881 507 1882 508 1883 509 1884 510 1885 511 1886 512 1887 513 1888 514 1889 515 1890 516 1891 517 1892 518 1893 519 1894 520 1895 521 1896 522 1897 523 1898 524 1899 525 1900 526 1901 527 1902 528 1903 529 1904 530 1905 531 1906 532 1907 533 1908 534 1909 535 1910 536 1911 537 1912 538 1913 539 1914 540 1915 541 1916 542 1917 543 1918 544 1919 545 1920 546 1921 547 1922 548 1923 549 1924 550 1925 551 1926 552 1927 553 1928 554 1929 555 1930 556 1931 557 1932 558 1933 559 1934 560 1935 561 1936 562 1937 563 1938 564 1939 565 1940 566 1941 567 1942 568 1943 569 1944 570 1945 571 1946 572 1947 573 1948 574 1949 575 1950 576 1951 577 1952 578 1953 579 1954 580 1955 581 1956 582 1957 583 1958 584 1959 585 1960 586 1961 587 1962 588 1963 589 1964 590 1965 591 1966 592 1967 593 1968 594 1969 595 1970 596 1971 597 1972 598 1973 599 1974 600 1975 601 1976 602 1977 603 1978 604 1979 605 1980 606 1981 607 1982 608 1983 609 1984 610 1985 611 1986 612 1987 613 1988 614 1989 615 1990 616 1991 617 1992 618 1993 619 1994 620 1995 621 1996 622 1997 623 1998 624 1999 625 2000 626 2001 627 2002 628 2003 629 2004 630 2005 631 2006 632 2007 633 2008 634 2009 635 2010 636 2011 637 2012 638 2013 639 2014 640 2015 641 2016 642 2017 643 2018 644 2019 645 2020 646 2021 647 2022 648 2023 649 2024 650 2025 651 2026 652 2027 653 2028 654 2029 655 2030 656 2031 657 2032 658 2033 659 2034 660 2035 661 2036 662 2037 663 2038 664 2039 665 2040 666 2041 667 2042 668 2043 669 2044 670 2045 671 2046 672 2047 673 2048 674 2049 675 2050 676 2051 677 2052 678 2053 679 2054 680 2055 681 2056 682 2057 683 2058 684 2059 685 2060 686 2061 687 2062 688 2063 689 2064 690 2065 691 2066 692 2067 693 2068 694 2069 695 2070 696 2071 697 2072 698 2073 699 2074 700 2075 701 2076 702 2077 703 2078 704 2079 705 2080 706 2081 707 2082 708 2083 709 2084 710 2085 711 2086 712 2087 713 2088 714 2089 715 2090 716 2091 717 2092 718 2093 719 2094 720 2095 721 2096 722 2097 723 2098 724 2099 725 2100 726 2101 727 2102 728 2103 729 2104 730 2105 731 2106 732 2107 733 2108 734 2109 735 2110 736 2111 737 2112 738 2113 739 2114 740 2115 741 2116 742 2117 743 2118 744 2119 745 2120 746 2121 747 2122 748 2123 749 2124 750 2125 751 2126 752 2127 753 2128 754 2129 755 2130 756 2131 757 2132 758 2133 759 2134 760 2135 761 2136 762 2137 763 2138 764 2139 765 2140 766 2141 767 2142 768 2143 769 2144 770 2145 771 2146 772 2147 773 2148 774 2149 775 2150 776 2151 777 2152 778 2153 779 2154 780 2155 781 2156 782 2157 783 2158 784 2159 785 2160 786 2161 787 2162 788 2163 789 2164 790 2165 791 2166 792 2167 793 2168 794 2169 795 2170 796 2171 797 2172 798 2173 799 2174 800 2175 801 2176 802 2177 803 2178 804 2179 805 2180 806 2181 807 2182 808 2183 809 2184 810 2185 811 2186 812 2187 813 2188 814 2189 815 2190 816 2191 817 2192 818 2193 819 2194 820 2195 821 2196 822 2197 823 2198 824 2199 825 2200 826 2201 827 2202 828 2203 829 2204 830 2205 831 2206 832 2207 833 2208 834 2209 835 2210 836 2211 837 2212 838 2213 839 2214 840 2215 841 2216 842 2217 843 2218 844 2219 845 2220 846 2221 847 2222 848 2223 849 2224 850 2225 851 2226 852 2227 853 2228 854 2229 855 2230 856 2231 857 2232 858 2233 859 2234 860 2235 861 2236 862 2237 863 2238 864 2239 865 2240 866 2241 867 2242 868 2243 869 2244 870 2245 871 2246 872 2247 873 2248 874 2249 875 2250 876 2251 877 2252 878 2253 879 2254 880 2255 881 2256 882 2257 883 2258 884 2259 885 2260 886 2261 887 2262 888 2263 889 2264 890 2265 891 2266 892 2267 893 2268 894 2269 895 2270 896 2271 897 2272 898 2273 899 2274 900 2275 901 2276 902 2277 903 2278 904 2279 905 2280 906 2281 907 2282 908 2283 909 2284 910 2285 911 2286 912 2287 913 2288 914 2289 915 2290 916 2291 917 2292 918 2293 919 2294 920 2295 921 2296 922 2297 923 2298 924 2299 925 2300 926 2301 927 2302 928 2303 929 2304 930 2305 931 2306 932 2307 933 2308 934 2309 935 2310 936 2311 937 2312 938 2313 939 2314 940 2315 941 2316 942 2317 943 2318 944 2319 945 2320 946 2321 947 2322 948 2323 949 2324 950 2325 951 2326 952 2327 953 2328 954 2329 955 2330 956 2331 957 2332 958 2333 959 2334 960 2335 961 2336 962 2337 963 2338 964 2339 965 2340 966 2341 967 2342 968 2343 969 2344 970 2345 971 2346 972 2347 973 2348 974 2349 975 2350 976 2351 977 2352 978 2353 979 2354 980 2355 981 2356 982 2357 983 2358 984 2359 985 2360 986 2361 987 2362 988 2363 989 2364 990 2365 991 2366 992 2367 993 2368 994 2369 995 2370 996 2371 997 2372 998 2373 999 2374 1000 </pre>	
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Page 204 of 444	REST_MarkBackupsItems	Fri Jan 04 14:31:46 2008
<pre> 1375 1 1376 2 1377 3 1378 4 1379 5 1380 6 1381 7 1382 8 1383 9 1384 10 1385 11 1386 12 1387 13 1388 14 1389 15 1390 16 1391 17 1392 18 1393 19 1394 20 1395 21 1396 22 1397 23 1398 24 1399 25 1400 26 1401 27 1402 28 1403 29 1404 30 1405 31 1406 32 1407 33 1408 34 1409 35 1410 36 1411 37 1412 38 1413 39 1414 40 1415 41 1416 42 1417 43 1418 44 1419 45 1420 46 1421 47 1422 48 1423 49 1424 50 1425 51 1426 52 1427 53 1428 54 1429 55 1430 56 1431 57 1432 58 1433 59 1434 60 1435 61 1436 62 1437 63 1438 64 1439 65 1440 66 1441 67 1442 68 1443 69 1444 70 1445 71 1446 72 1447 73 1448 74 1449 75 1450 76 1451 77 1452 78 1453 79 1454 80 1455 81 1456 82 1457 83 1458 84 1459 85 1460 86 1461 87 1462 88 1463 89 1464 90 1465 91 1466 92 1467 93 1468 94 1469 95 1470 96 1471 97 1472 98 1473 99 1474 100 1475 101 1476 102 1477 103 1478 104 1479 105 1480 106 1481 107 1482 108 1483 109 1484 110 1485 111 1486 112 1487 113 1488 114 1489 115 1490 116 1491 117 1492 118 1493 119 1494 120 1495 121 1496 122 1497 123 1498 124 1499 125 1500 126 1501 127 1502 128 1503 129 1504 130 1505 131 1506 132 1507 133 1508 134 1509 135 1510 136 1511 137 1512 138 1513 139 1514 140 1515 141 1516 142 1517 143 1518 144 1519 145 1520 14</pre>		

```

1390 //.....
1391 * REST_UnmarkBackupsItems
1392 .....
1393 * Description:
1394 * This routine will unmark objects selected in the file manager
1395 * list box.
1396
1397 * Parameters:
1398 * None.
1399 * Returns:
1400 * None.
1401 .....
1402
1403 void REST_UnmarkBackupsItems (void)
1404 {
1405     RestoreInfoPwr info; /* Next object to mark */
1406     long numberBad = 0; /* Number of bad files marked */
1407     long numberMarked = 0; /* Number of objects marked */
1408     BoolEnum unmarked = BOOL_FALSE; /* Flag if anything was unmarked */
1409
1410     /* This may take a while so display a wait cursor */
1411     WOT_SetWaitCursor (WGPTR)REST_RestoreWin);
1412
1413     /* Un-select all items that are highlighted */
1414     info = (RestoreInfoPwr)GFWGR_GetFirstSelectedBoxObject();
1415     REST_GetPwrContext();
1416     while (info != NULL)
1417     {
1418         /* Update the overall info, knumberMarked, knumberBad;
1419         unmarked |= REST_UnmarkInfo (info, knumberMarked, knumberBad);
1420
1421         /* get the next selected row */
1422         info = (RestoreInfoPwr)GFWGR_GetNextSelectedBoxObject();
1423         REST_GetPwrContext();
1424     }
1425
1426     /* If anything was unmarked,
1427     if (unmarked) update the marked data based on the new list */
1428     REST_UpdateMarkedDataFromList (numberMarked, numberBad);
1429
1430     /* Update buttons based on what is selected in the box */
1431     SARBA_RestorePwrParms ((ISARBAPTR)REST_RestoreWin->selectedListBox);
1432     REST_ListboxSelectionOnly (NULL);
1433     REST_UpdateRemoveButtons ();
1434
1435     /* Display the normal cursor again */
1436     WOT_SetCursor ((WGPTR)REST_RestoreWin, CURSOR_Arrow());
1437 }
1438

```

```

1440 //.....
1441 * REST_SetSearchVisibility
1442 .....
1443 * Description:
1444 * This routine will set the search button visibility to the given
1445 * value.
1446
1447 * Parameters:
1448 * visible (I) - flag if the button should be visible.
1449 * Returns:
1450 * None.
1451 .....
1452
1453 void REST_SetSearchVisibility (Boolean visible)
1454 {
1455     BoolEnum isVisible;
1456
1457     /* If there is a restore in progress, don't update anything */
1458     if (REST_RestoreInProgress ())
1459         return;
1460
1461     /* Based on the incoming value and the searchableness of the current
1462     if (visible &&
1463         (currentWorkItemInfo != NULL) &&
1464         (currentWorkItemInfo->restoreObject != NULL))
1465     {
1466         /* Make sure the current work item is searchable */
1467         if ((EDMSNST_IobjSearchable (GFWGR_GetHandle,
1468             (currentWorkItemInfo->restoreObject,
1469             isVisible) != E_SUCCESS))
1470             isVisible = BOOL_FALSE;
1471         /* on error, set not visible */
1472     }
1473     else
1474     {
1475         /* Not visible */
1476         isVisible = BOOL_FALSE;
1477     }
1478
1479     /* Set the visibility of the search button */
1480     GFWGR_WOT_SetEnabled ((
1481         WGPTR)REST_RestoreWin->SearchButton, isVisible);
1482 }
1483

```

```

1484 /*****
1485 * REST_UpdatePartialButton
1486 * Description:
1487 * This routine will update the allow partial button visibility
1488 * on what is allowed for the current work item.
1489 * Parameters:
1490 * None
1491 * Returns:
1492 * None
1493 *
1494 *****/
1495 void REST_UpdatePartialButton ( void )
1496 {
1497     BOOL bInum isSymmOK;
1498
1499     /* If there is a restore in progress, don't update anything */
1500     if (REST_RestoreInProgress ())
1501     {
1502         return;
1503     }
1504
1505     /* Based on the current WJ determine if SC restore is OK */
1506     if ((currentWorkItemInfo->isNULL) &&
1507         (currentWorkItemInfo->restoreObject != NULL))
1508     {
1509         /* Make sure the current work item is searchable */
1510         if (EDMRST_GetSymmRestoreOption (GRST_Handle,
1511             currentWorkItemInfo->restoreObject,
1512             isSymmOK) != E_SUCCESS)
1513         {
1514             /* on error, allow SC restore */
1515             isSymmOK = BOOL_TRUE;
1516         }
1517     }
1518     else
1519     {
1520         /* Allow SC to be visible. It will be updated more accurately later */
1521         isSymmOK = BOOL_TRUE;
1522     }
1523
1524     if (!isSymmOK)
1525     {
1526         /* Not OK to use symm connect, unselect the allow partial button */
1527         TBTU_Unselect ((TBTUPtr)REST_RestoreWin->allowPartialButton);
1528     }
1529 }
1530
1531 /* Set the visibility of the partition button */
1532 OUTILL_WGT_SetEnabled ((
1533     WGTPtr)REST_RestoreWin->allowPartialButton, isSymmOK);
1534 }

```

```

1536 /*****
1537 * REST_DisplaySearch
1538 * Description:
1539 * This routine will display the restore search window.
1540 * Parameters:
1541 * None
1542 * Returns:
1543 * None
1544 *****/
1545 void REST_DisplaySearch (void)
1546 {
1547     RestoreInfoPtr info;
1548     /* Object selected in the file manager */
1549     atStr[STRING_LENGTH];
1550     /* Starting directory string */
1551     Char
1552
1553     /* Get the current directory from the file manager */
1554     info = (RestoreInfoPtr)GRMKA_GetFileSelectedObjectContext();
1555
1556     /* If there is a current directory, get its name */
1557     if (info->restoreObject != NULL)
1558     {
1559         /* If it really is a directory get the full name */
1560         if (info->type == REST_Directory)
1561         {
1562             STR_Copy (atStr,
1563                 EDMRST_GetObjectFullName (
1564                     GRST_Handle, info->restoreObject));
1565         }
1566     }
1567
1568     /* If this is a client or a work-item,
1569     else if ((info->children != NULL) &&
1570         (info->children->next != NULL) &&
1571         (info->children->type == REST_Directory))
1572     {
1573         STR_Copy (atStr,
1574             EDMRST_GetObjectFullName (GRST_Handle,
1575                 info->children->restoreObject));
1576     }
1577
1578     /* Else just start at the root directory */
1579     else
1580     {
1581         STR_Copy (atStr, "");
1582     }
1583
1584     /* Else there is nowhere to start */
1585     else
1586     {
1587         STR_Copy (atStr, "");
1588     }
1589
1590     /* Put up the search window */
1591     REST_SearchDisplay (atStr);
1592 }
1593
1594 }

```

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<pre>1595 //..... 1596 * REST_TimeOut 1597 * 1598 * Description: 1599 * This routine is called when the user has been idle too long and 1600 * we want to time out the process. Rather than exit the process 1601 * all together, 1602 * we want to reset the user back to the initial state. 1603 1604 * Parameters: 1605 * code (I) - The notification received. 1606 * 1607 * Returns: 1608 * None. 1609 * 1610 1611 void REST_TimeOut (CLIENT clientData) 1612 { 1613 int countDown; /* The current countdown value */ 1614 GALTERT_Middleware outpusttring[MAX_STRING_LENGTH]; 1615 char *Sting to display */ 1616 1617 /* Re-add the timeout incase the user still doesn't do anything */ 1618 EVENT_StartChacAlarm (REST_TimeOut, (1619 CLIENTPR clientData, TIMEOUT_DELAY); 1620 1621 /* We only care if we have a work-item open, 1622 and a restore is not running */ 1623 if ((currentWorkItemInfo != NULL) && 1624 ((REST_RestoreInProgress()) && 1625 (REST_SearchInProgress()))) 1626 { 1627 /* Show the restore window if it is iconified */ 1628 if (!WIN_IsOpen ((WINPR)REST_RestoreWin)) 1629 WIN_Show ((WINPR)REST_RestoreWin); 1630 1631 /* Format a warning to countdown before re-initing */ 1632 STR_Sprintf (outpusttring, (REST_TIMEOUT_FORECAST_WARNING), 1633 TIMEOUT_WARNING_SECONDS); 1634 1635 /* Pop up the warning dialog */ 1636 GICON_SynchronousAlert (1637 (WINPR)REST_RestoreWin, 1638 REST_GetErrorString (REST_WARNING_INDEX), 1639 outpusttring, 1640 BOOL_TRUE); 1641 1642 /* Countdown the seconds before re-initing */ 1643 for (countDown = TIMEOUT_WARNING_SECONDS; 1644 (GALTERT_IsCancelled (synchandle) && (countDown > 0)); 1645 countDown--) 1646 { 1647 /* The user hasn't cancelled, 1648 display the number of seconds remaining */ 1649 STR_Sprintf (outpusttring, 1650 REST_GetErrorString (REST_TIMEOUT_FORECAST_WARNING), 1651 GALTERT_UpdateMessage (synchandle, outpusttring)); 1652 }</pre>	<pre>1594 3 1595 3 1596 2 1597 2 1598 2 1599 2 1600 2 1601 3 1602 3 1603 3 1604 3 1605 3 1606 3 1607 3 1608 3 1609 3 1610 3 1611 2 1612 2 1613 3 1614 3 1615 3 1616 3 1617 3 1618 3 1619 3 1620 3 1621 3 1622 3 1623 3 1624 3 1625 3 1626 3 1627 3 1628 3 1629 3 1630 3 1631 3 1632 3 1633 3 1634 3 1635 3 1636 3 1637 3 1638 3 1639 3 1640 3 1641 3 1642 3 1643 3 1644 3 1645 3 1646 3 1647 3 1648 3 1649 3 1650 3 1651 3</pre>	<pre>/* Wait one second */ sleep (1); } /* Check to see if the user cancelled */ if (GALTERT_IsCancelled (synchandle) && (/* The user didn't cancel, clear this session and redisplay */ REST_ClearSession (BOOL_TRUE); REST_Display (1);)) { /* Remove the wait dialog */ GALTERT_CancelSynchDialog (synchandle); } /* Display an alert dialog telling the user we timed out */ GALTERT_DisplayError ((WINPR)REST_RestoreWin, REST_GetErrorString (REST_WARNING_INDEX), REST_GetErrorString (REST_TIMEOUT_ERROR)); } else { /* Remove the wait dialog */ GALTERT_CancelSynchDialog (synchandle); } else { /* Keep the restore engine alive by telling it we're still here */ EDMSGST_Ping (GREST_Handle); }</pre>	<pre>1594 3 1595 3 1596 2 1597 2 1598 2 1599 2 1600 2 1601 3 1602 3 1603 3 1604 3 1605 3 1606 3 1607 3 1608 3 1609 3 1610 3 1611 2 1612 2 1613 3 1614 3 1615 3 1616 3 1617 3 1618 3 1619 3 1620 3 1621 3 1622 3 1623 3 1624 3 1625 3 1626 3 1627 3 1628 3 1629 3 1630 3 1631 3 1632 3 1633 3 1634 3 1635 3 1636 3 1637 3 1638 3 1639 3 1640 3 1641 3 1642 3 1643 3 1644 3 1645 3 1646 3 1647 3 1648 3 1649 3 1650 3 1651 3</pre>		
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```

1592  /*****
1593  * REST_NotifyReceived
1594  *
1595  * Description:
1596  * This routine keeps track of the time between user actions. If
1597  * this routine is called for too long a time, the Restore API will be
1598  * reset so that locks on work-items are not held which would cause
1599  * eb processes to hang.
1600  *
1601  * Parameters:
1602  * code (I) - The notification received.
1603  *
1604  * Returns:
1605  * None.
1606  *
1607  *****/
1608
1609 void REST_NotifyReceived (WinkEnum code)
1610 {
1611     if ((code == WIN_NPMOISREMOVE) ||
1612         (code == WIN_NPMOISSELECT) ||
1613         (code == WIN_NPMOISREPUTONRELEASE) ||
1614         (code == WIN_NPMKEYACCESS) ||
1615         (code == WIN_NPMKEYCIRC) ||
1616         (code == WIN_NPMKEYCHARN) ||
1617         (code == WIN_NPMKEYINPCOS))
1618     {
1619         if (timerData != NULL)
1620             EVENT_StopClockAlarm (timerData);
1621         timerData = GUTTL_Malloc (sizeof (int));
1622         else
1623             EVENT_StartClockAlarm (REST_Timeout, (
1624                 ClientPer)timerData, TIMEOUT_DELAY);
1625     }
1626 }
1627
1628
1629

```

```

1729  /*****
1730  * REST_DisplayContextHelp
1731  *
1732  * Description:
1733  * This routine will display context sensitive help for the give
1734  * widget.
1735  *
1736  * Parameters:
1737  * contextWidget (I) - The current widget to display help for.
1738  *
1739  * Returns:
1740  * None.
1741  *
1742  *****/
1743
1744 void REST_DisplayContextHelp (Widget contextWidget)
1745 {
1746     Widget focusWidget;
1747     int helpId = REST_MAIN;
1748     Boolean found = BOOL_FALSE;
1749
1750     focusWidget = contextWidget;
1751     while ((!found) && (focusWidget != NULL))
1752     {
1753         if (focusWidget == (Widget)REST_RestoreWin->DataAvailablePanel)
1754         {
1755             helpId = REST_DATA_AVAILABLE;
1756             found = BOOL_TRUE;
1757         }
1758         else if (focusWidget == (Widget)REST_RestoreWin->TabsPanel)
1759         {
1760             if (WGT_IsVisible((Widget)REST_RestoreWin->ViewOptionsPanel))
1761                 helpId = REST_VIEW_OPTIONS;
1762             else if (WGT_IsVisible((
1763                 Widget)REST_RestoreWin->MarkSummaryPanel))
1764                 helpId = REST_MARK_SUMMARY;
1765             else if (WGT_IsVisible((Widget)REST_RestoreWin->MediaPanel))
1766                 helpId = REST_MEDIA;
1767             else
1768                 helpId = REST_MAIN;
1769             found = BOOL_TRUE;
1770         }
1771         else
1772             focusWidget = (Widget) WGT_GetPanel (focusWidget);
1773     }
1774     EMBED_HELP_Display ((Widget)REST_RestoreWin, REST_MODAL, helpId);
1775 }
1776
1777

```



```

1 //*****
2 #define CAL_MGR_C
3
4 *
5 * Copyright 1996 By Epoch Systems, Inc.
6
7 *
8 * Mission Statement:
9 *   This file contains the functions necessary for the EXM Calendar
10 *   window.
11 *
12 * Required Includes:
13 *   None
14
15 * Compile-Time Options:
16 *   N/A
17
18 * RCS Information:
19 *   $RCSfile$
20 *   $Source$
21 *   $Date$
22 *   $Revision$
23
24 #define ERM_LIB RESTORE
25
26 #include <cs/Portable.h>
27
28 #include <cs/repub.h>
29 #include <cs/boxpub.h>
30 #include <cs/boxpub.h>
31 #include <cs/boxpub.h>
32 #include <cs/boxpub.h>
33 #include <cs/boxpub.h>
34
35 #include <cs/boxpub.h>
36
37 #include <cs/boxpub.h>
38
39 #include "restore.h"
40 #include "restore.h"
41 #include "restore.h"
42 #include "restore.h"
43 #include "restore.h"
44 #include "restore.h"
45 #include "restore.h"
46 #include "restore.h"
47 #include "restore.h"
48
49 //*****
50 * Constants *
51 //*****
52
53 #define SMALL_STRING_LENGTH 16
54 #define MEDIUM_STRING_LENGTH 32
55 #define DAY_LABEL_OFFSET 3
56 #define DAY_LABEL_HEIGHT 20
57 #define MAX_TIME_SLOTS 24
58
59 #define TIME_BUFFER_LENGTH 64
60
61 #define DATE_BOX_WIDTH 140
62 #define DATE_BOX_HEIGHT 90
63
64 #define DATE_TEXT_HEIGHT 21

```

```

67 #define MAX_DAYS_PER_MONTH 31
68 #define BORDER_OFFSET 5
69 #define MARGIN_WIDTH 15
70
71 * Global Variables *
72 * *****
73 *
74 * Score the currently displayed month and year */
75 static int displayedmonth;
76 static int displayedyear;
77
78 /* Score the current time for the displayed month */
79 static struct tm displayedmonthtime;
80
81 /* Score the currently selected time */
82 static time_t currentselectedtime;
83
84 /* Score the currently selected day, month, and year */
85 static int selectedday = -1;
86 static int selectedmonth;
87 static int selectedyear;
88
89 /* Arrays kept for the backup times for the current month */
90 static struct tm backuptimes[MAX_DAYS_PER_MONTH][MAX_TIME_SLOTS];
91 static int backuptimescount[MAX_DAYS_PER_MONTH];
92
93 /*
94 * Score the first and last backup times,
95 * so we know when there are previous
96 * and next backups.
97 */
98
99 /* Array of Combo Boxes (one per day) to show list of times for that day */
100 static struct timeval backuptimes[MAX_DAYS_PER_MONTH];
101
102 /* Array of text fields (one per day) to show the time for that day */
103 static struct timeval backuptimes[MAX_DAYS_PER_MONTH];
104
105 /* Flag to determine initialization status */
106 static Boolean initialized = BOOL_FALSE;
107
108 static Boolean restorecalendardefined = BOOL_FALSE;
109
110 static Boolean REST_CalTerminated = BOOL_FALSE;
111
112 /* Hack flag to avoid setting the selected time when a CursSelect is
113 * done to
114 * display the first time for a day (which is not the real time selected)
115 */
116
117 static Boolean selectionbyCode = BOOL_FALSE;
118
119 /* Forward Declaration */
120 static void REST_UpdateLabels(void);
121
122 /* *****
123 * REST_CalCreateComboBox
124 * Description: will create a combo box to be used for displaying
125 * multiple restore times for a single day.
126 */

```

Page 219 of 444	REST_CalCreatedDateBox	Fri Jan 04 14:31:46 2008	Page 220 of 444	REST_CalCreatedDateText	Fri Jan 04 14:31:46 2008
128	* Parameters:		178	/*	
129	* None.		179	REST_CalCreatedDateText	
130	* Returns:		180	* Description:	
131	* The new Combo Box		181	* This routine will create a Tkd to be used for displaying	
132	*****		182	* a singl restoral time for a day.	
133	*****		183	*****	
134	*****		184	*****	
135	*****		185	* Parameters:	
136	*****		186	* None.	
137	static CBoxPtr REST_CalCreateDateBox (void)		187	* Returns:	
138	{		188	* The new Text Area	
139	CBoxPtr newBox; /* the new combo box created */		189	*****	
140	ColorPtr bgColor; /* the color to set the foreground to */		190	*****	
141	ColorPtr pen; /* the color to set the background to */		191	*****	
142	FontPtr font; /* the font to use for the combo box */		192	*****	
143	/*		193	static TkdPtr REST_CalCreatedDateText (void)	
144	/* Create the combo box and set the defaults		194	{	
145	/*		195	TkdPtr newTkd; /* The new text area created */	
146	/*		196	ColorPtr bgColor; /* The color to set the foreground to */	
147	/*		197	ColorPtr bgColor; /* The color to set the background to */	
148	newBox = CBox_Create ();		198	FontPtr font; /* The font to use for the text area */	
149	CBox_SetStyle (newBox, CBOK_TYPEDROPDOWNLIST);		199	/*	
150	CBox_SetSubClass (newBox, CBOK_TYPEDROPDOWNLIST);		200	/* Create the text area and set the defaults	
151	/* Set the resizing so that it doesn't resiza at all */		201	/*	
152	WGT_SetFlags (WGT_PENnewBox,		202	newText = Tkd_Create ();	
153	WGT_RESIZEKEEPWIDTH WGT_RESIZEKEEPHEIGHT		203	Tkd_SetJustif (newText, TDK_JUSTIFYCENTER);	
154	WGT_RESIZEKEEPLEFT WGT_RESIZEKEEPRIGHT);		204	Tkd_SetObjFlags (newText, TDK_OPENGLPOLYX);	
155	/*		205	/* Set the resizing so that it doesn't resize at all */	
156	/* Attempt to get each 'eden' default resource and set it		206	WGT_SetFlags (WGT_PENnewBox,	
157	/*		207	WGT_RESIZEKEEPLEFT WGT_RESIZEKEEPRIGHT);	
158	/*		208	/*	
159	/*		209	/* Set the resizing so that it doesn't resize at all */	
160	/*		210	WGT_SetFlags (WGT_PENnewBox,	
161	/*		211	WGT_RESIZEKEEPLEFT WGT_RESIZEKEEPRIGHT);	
162	/*		212	/*	
163	/* Attempt to get each 'eden' default resource and set it		213	/*	
164	/*		214	/*	
165	/*		215	/*	
166	/*		216	/*	
167	/*		217	/*	
168	/*		218	/*	
169	/*		219	/*	
170	/*		220	/*	
171	/*		221	/*	
172	/*		222	/*	
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183	/*		233	/*	
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249	/*		299	/*	
250	/*		300	/*	
251	/*		301	/*	
252	/*		302	/*	
253	/*		303	/*	
254	/*		304	/*	
255	/*		305	/*	
256	/*		306	/*	
257	/*		307	/*	
258	/*		308	/*	
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351	/*		401	/*	
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379	/*		429	/*	
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384	/*		434	/*	
385	/*		435	/*	
386	/*		436	/*	
387					

```

234 //
235 * REST_CalSeBoxPos .....
236
237 * Description:
238 * This routine will set the position for the combo box and mtd
239 * for the given day given the coordinates for the day's entire box.
240
241 * Parameters:
242 *   dayNumber: (I) - The day to update the combo box and mtd for.
243 *   day2: (I) - The day to update the mtd box.
244 *   dayExt: (I) - The extent coordinates for the day's box.
245
246 * Returns:
247 *   None.
248
249 .....
250
251 static void REST_CalSeBoxPos (int dayNumber,
252                               Point1dSpec dayExt)
253 {
254     Rect1dRec box; /* Bounding box for the combo box and mtd */
255
256     /* Set the width to leave an offset on each side */
257     box.Ext.x = dayExt.x - (2 * DAY_LABEL_OFFSET);
258
259     /* If this is too wide use the max width */
260     if (box.Ext.x > DATE_CHOX_WIDTH)
261     {
262         box.Ext.x = DATE_CHOX_WIDTH;
263     }
264
265     /* Center the box, horizontally */
266     box.Orig.x = dayExt.x + ((dayExt.x - box.Ext.x) / 2);
267
268     /* Set the height of the box */
269     box.Ext.y = DATE_CHOX_HEIGHT;
270
271     /* Center the box, vertically */
272     box.Orig.y = dayExt.y + ((dayExt.y - DATE_TEXT_HEIGHT) / 2);
273
274     /* Set the combo box's bounding box */
275     WGT_SetBox (WgtCtrl)backpnlMainBox(dayNumber, box);
276
277     /* Set the text area's bounding box */
278     box.Ext.y = DATE_TEXT_HEIGHT;
279
280     WGT_SetBox (WgtCtrl)backpnlMainText(dayNumber, box);
281
282 }

```

```

284 //
285 * REST_GetDayWidthHeight .....
286
287 * Description:
288 * This routine will determine the current width and height of a day
289 * in the calendar window.
290
291 * Parameters:
292 *   dayNumber: (I) - The width of the day.
293 *   height: (O) - The height of the days.
294
295 * Returns:
296 *   None.
297
298 .....
299
300 void REST_GetDayWidthHeight (int *width,
301                               int *height)
302 {
303     int numberDays; /* Number of days in the displayed month */
304
305     int numberWeeks; /* Number of weeks in the displayed month */
306     panelRect panelExt; /* Extents of the panel width */
307     int panelHeight; /* The drawable panel height */
308
309     /* Determine the number of days and weeks in the displayed month */
310     numberDays = GETIME_DaysPerMonth (displayedMonth, displayedYear);
311     numberWeeks = GETIME_NumbersWeeks (
312         displayedMonthTime, tm_wday, numberDays);
313
314     /* Get the current extents of the drawing panel */
315     panelExt = (Point1dRect) WGT_GetRect ((
316         WgtCtrl)REST_CalendarWindow->CalendarPanel);
317
318     panelWidth = panelExt.x - 1;
319
320     /* Get the width and height of each day */
321     *width = panelWidth / DAYS_PER_WEEK;
322     *height = (panelHeight - DAY_LABEL_HEIGHT) / numberWeeks;
323 }

```

Page 223 of 444	REST_DrawSelectedDay	Fri Jan 04 14:31:46 2008	Page 224 of 444	REST_DrawSelectedDay	Fri Jan 04 14:31:46 2008
324	/*		384 4	COLOR.Transparent(1))	
325	REST_DrawSelectedDay		385 4	DRAW_Rect (Widget.REST_CalendarWindow->CalendarPanel, &rect);	
326	/*		387 3)	
327	Description:			/* If not still selected, just invalidate the region */	
328	This routine will draw the border and text number for the			else	
	selected day.	currently	391 4	{	
329	Parameters:		392 4	rect.Ori.x -= BORDER_OFFSET;	
330	drawselected - flag if the day should still be drawn selected.		393 4	rect.Ori.x += BORDER_OFFSET;	
331	Return:		394 4	rect.Ext.x += (2 * BORDER_OFFSET);	
332	* None		395 4	rect.Ext.y += (2 * BORDER_OFFSET);	
333	* None		397 4	DRAW_InvalRect ({	
334	*****			Widget.REST_CalendarWindow->CalendarPanel, &rect);	
335				}	
336			398 3	}	
337			399 2	}	
338	static void REST_DrawSelectedDay (Boolean drawselected)		400 1	}	
339	{		401		
340 1	RectRec rect;	/* Rectangle to draw */			
341 2	int dayNumber;	/* day number (0-6) of the selected day */			
342 1	int weekNumber;	/* Week number of the selected day */			
343 1	int dayWidth;	/* The width of a day box */			
344 1	int dayHeight;	/* The height of a day box */			
345 1	int				
347 1	/* Only draw if there is a selected day */				
348 1	if (selectedDay >= 0)				
349 2	{				
350 2	/* Only draw if the selected day is in the current month/year */				
351 2	if ((selectedMonth == displayedMonth) && (
352 2	selectedYear == displayedYear))				
353 1	{				
354 1	/* Get the width and height of the day */				
355 3	REST_GetDayWidth(&dayWidth, &dayHeight);				
356 3	/* Determine the day number (0-6) */				
357 3	dayNumber = ((selectedDay % DAYS_PER_WEEK) +				
358 3	displayedMonthTime.tm_wday) % DAYS_PER_WEEK;				
359 3	/* Determine the week number */				
360 3	weekNumber = selectedDay * displayedMonthTime.tm_wday / DAYS_PER_WEEK;				
361 3	/* Calculate the bounding box for the selected day */				
362 3	rect.Ori.x = MARGIN_WIDTH + dayWidth * dayNumber;				
363 3	rect.Ori.y = DAY_LABEL_HEIGHT + (dayHeight * weekNumber);				
364 3	rect.Ext.x = dayWidth;				
365 3	rect.Ext.y = dayHeight;				
366 3	/* If the day is still selected, draw the border */				
367 3	if (drawselected)				
368 4	{				
369 4	/* Draw in one pixel all the way around,	to preserve the border */			
370 4	rect.Ori.x++;				
371 4	rect.Ori.y++;				
372 4	rect.Ext.x--;				
373 4	rect.Ext.y--;				
374 4					
375 4	/* Draw a thick border around the selected day */				
376 4	DRAW_SectPen((
377 4	Widget.REST_CalendarWindow->CalendarPanel, PEN.Solid(1));				
378 4	DRAW_SectPen((
379 4	Widget.REST_CalendarWindow->CalendarPanel,				
380 4	0.008, Black(1));				
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671  * /*****
672  * REST_CalendarSelfPreBackup
673  *
674  * Description:
675  * This routine will select the previous backup (
676  * currently selected backup.
677  *
678  * Parameters:
679  * None.
680  *
681  * Return:
682  * BOOL_TRUE - If a previous backup was found and selected
683  * BOOL_FALSE - otherwise
684  *
685  *****/
686
687  Boolean REST_CalendarSelfPreBackup (void)
688  {
689  Boolean found = BOOL_FALSE;
690
691  Boolean status;
692
693  /* Flag if previous exists for time */
694  Int
695  founday;
696  Int
697  tempday;
698  Int
699  tempmonth;
700  Int
701  index;
702  Boolean
703  tempstatus = BOOL_FALSE; /* Status to return */
704  ULONG
705  flags;
706
707  if (TRUST_GetSelected ((TRUST_P)REST_GetStoreWin-AllowPartialButton))
708  flags = BACKUP_SELECTION_FLAG_PARTIAL_OK;
709  else
710  flags = BACKUP_SELECTION_FLAG_COMPLETE_ONLY;
711
712  /* Find the previous backup time
713  */
714  /* If we are in the selected month/year,
715  move from the current selection */
716  if ((disp_ayedMonth == selectedMonth) &&
717  (disp_ayedYear == selectedYear))
718  {
719  /* If this is the only backup or the earliest backup of the day */
720  Index = (Int)CBOX_ChosenBoxId (backuptimebox[selectday]);
721  if (backuptimeCount[selectday] == 1) ||
722  (Index == backuptimeCount[selectday] - 1))
723  {
724  /* Find the previous day in the month with a backup */
725  founday = selectday;
726  found = REST_SelPreviousBackupMonth (&founday);
727
728  }
729  else
730  {
731  /* There is an earlier backup on this day */
732  founday = selectday;
733  CBOX_Gold (backuptimebox[selectday], Index+1);
734  CBOX_CursorSelect (backuptimebox[selectday]);
735  found = BOOL_TRUE;
736  }
737  }
738  }

```

```

732 1  /* If we haven't found it yet, try the prev month */
733 1  if (!found)
734 2  {
735 2  /* First, check if a previous backup exists */
736 2  EXMST_IsTherePreviousBackupPortTime (GUEST_Handle,
737 2  currentSelectedTime,
738 2  flags,
739 2  status);
740 2  if (status)
741 3  {
742 3  /* Find the previous month with a backup (we know one exists) */
743 3  tempmonth = displayedMonth - 1;
744 3  while (!found)
745 4  {
746 4  /* Only consider this month if backups were done in it. */
747 4  if (REST_BackupExistInMonth (tempmonth, displayedYear))
748 5  {
749 5  displayedMonth--;
750 5  REST_UpdateDisplayDate();
751 5
752 5  /* get the last day of the month (
753 5  plus one so we can find the last) */
754 5  founday = GTIME_DaysPerMonth (displayedMonth, displayedYear);
755 5  found = REST_SelPreviousBackupMonth (&founday);
756 5  }
757 5  tempMonth--;
758 5  }
759 5  }
760 5  }
761 5  }
762 5  }
763 5  /* If we found one */
764 5  if (found)
765 5  {
766 5  /* Draw the old selected day (has affect of unselecting) */
767 5  REST_DrawSelectDay (BOOL_FALSE);
768 5  /* Get the select backup date */
769 5  selectday = founday;
770 5  selectMonth = displayedMonth;
771 5  selectYear = displayedYear;
772 5  /* Draw the newly selected day */
773 5  REST_DrawSelectDay (BOOL_TRUE);
774 5  returnStatus = BOOL_TRUE;
775 5  }
776 5  return (returnStatus);
777 5  }
778 5  }

```

```

785 .....
786 * REST_SealNextBackupMonth
787 .....
788 * Description:
789 * this routine will select the next backup (chronologically) done
790 * after the given day of the current month and year.
791 .....
792 * Parameters:
793 * day (IO) - the day to start at, updated to found day (if any)
794 .....
795 * Returns:
796 * BOOL_TRUE - If a next backup was found and selected
797 * BOOL_FALSE - otherwise
798 .....
799
800 static Boolean REST_SealNextBackupMonth (int *day)
801 {
802     Boolean found = BOOL_FALSE;
803     int tempday;
804     int index;
805     int numberDays;
806     Boolean returnStatus = BOOL_FALSE; /* Status to return */
807
808     /* Find the next day with a backup */
809     tempday = *day;
810     while ((!(found && (tempday < numberDays)))
811           || (backuptimescount[tempday] > 0))
812     {
813         /* This is the day */
814         *day = tempday;
815
816         /* If there is more than one backup, use the first backup */
817         if (backuptimescount[tempday] > 1)
818         {
819             CBGX_Goid (
820                 backuptimebox[tempday], backuptimescount[tempday] - 1);
821             CBGX_CursorSelect (backuptimebox[tempday]);
822         }
823
824         /* Else use the only backup on this day */
825         else
826         {
827             currentSelectedTime = backuptimes[tempday][0];
828             found = BOOL_TRUE;
829         }
830         else
831         {
832             /* Go to the next day */
833             tempday++;
834         }
835     }
836
837     /* Return whether or not we found it */
838     return (found);
839 }

```

```

844 .....
845 * REST_CalendarSealNextBackup
846 .....
847 * Description:
848 * this routine will select the next backup (chronologically) to the
849 * currently selected backup.
850 .....
851 * Parameters:
852 * None.
853 .....
854 * Returns:
855 * BOOL_TRUE - If a next backup was found and selected
856 * BOOL_FALSE - otherwise
857 .....
858
859 Boolean REST_CalendarSealNextBackup (void)
860 {
861     Boolean found = BOOL_FALSE;
862     Boolean status;
863     int foundday;
864     int tempday;
865     int tempmonth;
866     int index;
867     Boolean returnStatus = BOOL_FALSE; /* Status to return */
868     u_long flags;
869
870     if (TRIP_GetSelected ((TRIP*)REST_NextorWin->AllowPartialButton))
871     {
872         flags = BACKUP_SELECTION_FLAG_PARTIAL_OK;
873     }
874     else
875     {
876         flags = BACKUP_SELECTION_FLAG_COMPLETE_ONLY;
877     }
878
879     /* Find the next backup time */
880     if ((!(displayMonth == selectedMonth) &&
881         (displayYear == selectedYear))
882     {
883         /* If this is the only backup or the last backup of the day */
884         index = (int)CBGX_ChosenGoid (backuptimebox[selectedDay]);
885         if ((backuptimescount[selectedDay] == 1) ||
886             (CBGX_ChosenGoid (backuptimebox[selectedDay]) == 0))
887         {
888             /* Find the next day in the month with a backup */
889             founday = selectedDay;
890             found = REST_SealNextBackupMonth (&founday);
891         }
892         else
893         {
894             /* There is a later backup on this day */
895             index = (int) CBGX_ChosenGoid (backuptimebox[selectedDay]);
896             founday = selectedDay;
897             CBGX_Goid (backuptimebox[selectedDay], index-1);
898             CBGX_CursorSelect (backuptimebox[selectedDay]);
899             found = BOOL_TRUE;
900         }
901     }
902 }

```



```

1011 2 textRect.Exc.y = DAY_LABEL_HEIGHT;
1012 2 DRAW_Text ("textRect.CalendarWindow->CalendarPanel",
1013 2 DRAW_JUSTCENTER,
1014 2 dayString);
1015 2
1016 1 }
1017 1
1018 1 /* Determine the number of days and weeks in the displayed month */
1019 1 numberDays = GETIME_DayOfMonth (displayMonth, displayYear);
1020 1 numberWeeks = GETIME_DayOfWeek (displayMonth, displayYear);
1021 1 displayWidthInTime_tn_wday, numberDays);
1022 1
1023 1 /* Draw the vertical lines */
1024 1 for (x = 0; x<=DAYS_PER_WEEK; x++)
1025 1 {
1026 1 startPoint.x = MARGIN_WIDTH + (x * dayWidth);
1027 1 startPoint.y = 0;
1028 2
1029 2 endPoint.x = startPoint.x;
1030 2 endPoint.y = DAY_LABEL_HEIGHT + (numberWeeks * dayHeight);
1031 2 DRAW_Line ((
1032 2 WgPtr)REST_CalendarWindow->CalendarPanel, startPoint, endPoint);
1033 2
1034 1 /* Draw the horizontal lines */
1035 1 for (y = 0; y<=numberWeeks; y++)
1036 1 {
1037 1 startPoint.x = MARGIN_WIDTH;
1038 1 startPoint.y = DAY_LABEL_HEIGHT + (y * dayHeight);
1039 2
1040 2 endPoint.x = MARGIN_WIDTH + (dayWidth * DAYS_PER_WEEK);
1041 2 endPoint.y = startPoint.y;
1042 2 DRAW_Line ((
1043 2 WgPtr)REST_CalendarWindow->CalendarPanel, startPoint, endPoint);
1044 2
1045 1 /* Draw the date labels */
1046 1 dayNumber = displayMonthInTime_tn_wday;
1047 1 textRect.Ort.x = MARGIN_WIDTH + (
1048 1 textRect.Ort.y = DAY_LABEL_HEIGHT + DAY_LABEL_OFFSET;
1049 1 for (x = 1; x <= numberDays; x++)
1050 1 {
1051 1 dayNumber * dayWidth + DAY_LABEL_OFFSET;
1052 1 textRect.Exc.y = textRect.y;
1053 2
1054 2 DRAW_Screen ((
1055 2 WgPtr)REST_CalendarWindow->CalendarPanel, FONT_Normal());
1056 2 DRAW_QueryText ((
1057 2 WgPtr)REST_CalendarWindow->CalendarPanel, dayString, &textRect);
1058 2 textRect.Exc.y = textRect.y;
1059 2
1060 2 DRAW_SetColors ((WgPtr)REST_CalendarWindow->CalendarPanel,
1061 2 COLOR_Black(),
1062 2 COLOR_Transparent());
1063 2 DRAW_SetPen ((WgPtr)REST_CalendarWindow->CalendarPanel, PEN_Solid(
1064 2 DRAW_Text ((WgPtr)REST_CalendarWindow->CalendarPanel,
1065 2 DRAW_JUSTCENTER,
1066 2 dayString);
1067 2
1068 2 /* Sec up the next day */
1069 2 dayNumber++;
1070 2
1071 2 /* If we have hit the end of the week */
1072 2 if (dayNumber == DAYS_PER_WEEK)
1073 2

```

```

1074 3 {
1075 3 /* Set the x coords back to the start */
1076 3 dayNumber = 0;
1077 3 textRect.Ort.x = MARGIN_WIDTH + DAY_LABEL_OFFSET;
1078 3
1079 3 /* Bump the y coords the height of a day */
1080 3 textRect.Ort.y = dayHeight;
1081 3
1082 3 else
1083 3 {
1084 3 /* Just bump the x coords the width of a day */
1085 3 textRect.Ort.x = dayWidth;
1086 3 }
1087 3
1088 3 }
1089 3
1090 3 /* Draw the selected day */
1091 3 REST_DrawSelectedDay (ISOL_TRUE);
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1189 1170 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200	<pre>/* * REST_CalSelBoxSelected * * Description: * This routine will select the day and time for the given combo * boxes * * Parameters: * cook [I] - The combo box which was selected * * Returns: * None. */ *****/ static void REST_CalSelBoxSelected (CBoxPer cbox) { int newId; /* The new selection id */ /* Redraw the old selected day, unselected */ REST_DrawSelBoxSelected (BOOL_FALSE); /* Get the new selected time */ selectedDay = (int) Wgt.GetCListBox (WgtPer.cbox); selectedMonth = displayMonth; selectedYear = displayYear; newId = (int) CBox_ChooseNewId (cbox); currentSelectedTime = backupTimes[selectedDay][newId]; /* Draw the newly selected day */ REST_DrawSelBoxSelected (BOOL_TRUE); }</pre>	1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221 1222 1223 1224 1225 1226 1227 1228 1229 1230	<pre>/* * REST_SetDisplayvdate * * Description: * This routine will display the current month and year in the date * text area. * * Parameters: * None. * * Returns: * None. */ *****/ static void REST_SetDisplayvdate (void) { char displayString(MEDIUM_STRING_LENGTH); /* String to display */ /* Set the month display string */ STR_Sprintf (displayString, "%s", TIME_GetMonthStr (TAREX_SetLabel (REST_CalendarWindow->monthArea, displayMonth)); /* Set the year display string */ STR_Sprintf (displayString, "%d", 1900 + displayYear); TAREX_SetLabel (REST_CalendarWindow->yearArea, displayString); }</pre>	1218 1219 1220 1221 1222 1223 1224 1225 1226 1227 1228 1229 1230 1231 1232 1233 1234 1235 1236 1237 1238 1239 1240 1241 1242 1243 1244 1245 1246 1247 1248 1249 1250	
Fin Jan 04 14:31:46 2008	restCalMg.c.25	Page 241 of 444	Fin Jan 04 14:31:46 2008	restCalMg.c.26	Page 242 of 444

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<pre> 1354 5 else 1355 6 { 1356 7 MCT_SelectVisible ((MCT_Ptr)backuptimebox[monthday]); 1357 8 MCT_SelectVisible ((MCT_Ptr)backuptimebox[monthday]); 1358 9 } 1359 10 1360 11 /* 1361 12 * NOTE: 1362 13 * The times are given to us in descending order. We want to 1363 14 * put them in the list such that the first is the earliest 1364 15 * and the last is the latest. 1365 16 * If we go to the ID of the last one 1366 17 * we got and do a CBOX_CurAddable it will put it before it 1367 18 * so 1368 19 * that will reverse the order for us. The latest backup on 1369 20 * that day will then be 0, and the earliest will then be 1370 21 * backuptimescount[date]. 1371 22 */ 1372 23 /* Get to the end of the list */ 1373 24 if (backuptimescount[monthday] > 0) 1374 25 { 1375 26 first = BOOL_FALSE; 1376 27 CBOX_GetID (backuptimebox[monthday], 1377 28 backuptimescount[monthday]); 1378 29 } 1379 30 else 1380 31 { 1381 32 first = BOOL_TRUE; 1382 33 CBOX_GetFirst (backuptimebox[monthday]); 1383 34 } 1384 35 1385 36 /* Add this time to the element list */ 1386 37 CBOX_CurAddable (backuptimebox[monthday], NULL); 1387 38 1388 39 /* Set the label for this element to the time string */ 1389 40 CBOX_CurSetLabel (backuptimebox[monthday], timeString); 1390 41 1391 42 /* Set the ID to the index into the backup times */ 1392 43 CBOX_CurSetID (backuptimebox[monthday], 1393 44 backuptimescount[monthday]); 1394 45 1395 46 /* If this is the current time or the first for that day, 1396 47 * select it */ 1397 48 if ((times[i] == currentSelectedTime) first) 1398 49 CBOX_CurSelect (backuptimebox[monthday]); 1399 50 1400 51 /* Also select the day */ 1401 52 if (times[i] == currentSelectedTime) 1402 53 REST_CalendarSelect (backuptimebox[monthday]); 1403 54 1404 55 /* Update the time count for this day */ 1405 56 backuptimescount[monthday]++; 1406 57 } 1407 58 } 1408 59 } 1409 60 else 1410 61 { 1411 62 /* Nothing more to see here folks... Nothing more to see... */ 1412 63 cookie = DONE_COOKIE; 1413 64 } 1414 65 </pre>		<pre> restCalendar.c:20 </pre>			<pre> 1414 1 } 1415 2 /* Free the times array, we be done with it */ 1416 3 GRTL_Free (times); 1417 4 1418 5 /* Remove the selection by code flag */ 1419 6 selectionbyCode = BOOL_FALSE; 1420 7 1421 8 /* Resize the window, for different number of weeks in this month */ 1422 9 REST_CalendarResize (1); 1423 10 1424 11 /* Invalidate the calendar to force a redraw */ 1425 12 MCT_Inval ((MCT_Ptr)REST_CalendarWindow->CalendarPanel, BOOL_TRUE); 1426 13 1427 14 } </pre>

Page 247 of 444	REST_CalendarGetMostRecentTime	Fri Jan 04 14:31:46 2008
<pre>1430 1431 1432 * REST_CalendarGetMostRecentTime 1433 * 1434 * Description: 1435 * This routine will determine the time of the most recent backup. 1436 * 1437 * Parameters: 1438 * None. 1439 * 1440 * Returns: 1441 * None. 1442 * 1443 *</pre>		
<pre>1444 1445 time_t REST_CalendarGetMostRecentTime (void) 1446 { 1447 time_t mostRecentTime = 0; /* Time of most recent backup */ 1448 int i; /* Loop index */ 1449 long cookie = INIT_COOKIE; /* Ah, the magic cookie */ 1450 short numEntries; /* Number of times returned */ 1451 time_t times; /* Array of times returned */ 1452 eerrno_t eerrno; /* Error code returned */ 1453 u_long flags; 1454 1455 if (TRUE) GetSelected (TRUE,PIR,REST_RestoreMin->AllPartialButton) 1456 { 1457 flags = BACKUP_SELECTION_FLAG_PARTIAL_OK; 1458 } 1459 else 1460 { 1461 /* Allocate space for the times */ 1462 times = (time_t *) GUTIL_Malloc (TIME_BUFFER_LENGTH * sizeof(1463 time_t)); 1464 } 1465 while (cookie != DONE_COOKIE) 1466 { 1467 /* Get all times (1468 we can start with the current selection to minimize) */ 1469 if ((eerrno = ERMST_GetAllBackupTimes (GREST_Handle, 1470 times, numEntries, 1471 cookie)) != 0) 1472 { 1473 /* Loop through all the backup times */ 1474 for (i = 0; i < numEntries; i++) 1475 { 1476 /* Check if this is more recent than the current */ 1477 if (times[i] > mostRecentTime) 1478 mostRecentTime = times[i]; 1479 } 1480 /* Nothing more to see here folks... Nothing more to see... */ 1481 cookie = DONE_COOKIE; 1482 } 1483 } 1484 return (mostRecentTime); 1485 }</pre>		
Page 247 of 444	restCalM.c 31	Fri Jan 04 14:31:46 2008

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	<pre>1496 1 1497 1 /* Free the times array */ 1498 1 GUTIL_Free (times); 1499 1 return (mostRecentTime); 1500 }</pre>	
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1500 //
1501 // REST_CalendarUpdateDate
1502 //
1503 // Description:
1504 // This routine will handle the callback to update the displayed
1505 // month based on the current selection in the Month and Year
1506 // combo boxes.
1507 //
1508 // Parameters:
1509 // month - The new month number to display
1510 // year - The new year number to display
1511 // isMonthUpdate (I) - Flag if this update is a month update
1512 //
1513 // Returns:
1514 // None.
1515 //
1516 //
1517 //
1518 static void REST_CalendarUpdateDate (int month,
1519                                     int newYear,
1520                                     Boolean isMonthUpdate)
1521 {
1522     int startDay = 1;
1523     // Temporary storage for first day of month */
1524     int tempMonth;
1525     // Temporary month storage for new month */
1526     int tempYear;
1527     // Time string for last time in previous month */
1528     Boolean previous;
1529     // Flag if the selected is prior to current */
1530     int status = 0;
1531     // Return status from GREST calls */
1532     boolean, by isThere = 0;
1533     // Flag if the backup exists */
1534     int currentDay;
1535     // Today's day */
1536     int currentMonth;
1537     // Current month */
1538     int currentYear;
1539     // Today's year */
1540     Char outputString[Max_STRING_LENGTH];
1541     // Error string to display */
1542     int mostRecentTime = 0;
1543     // Time of most recent backup */
1544     int tempHour;
1545     // Temporary storage */
1546     int tempMinute;
1547     // Temporary storage */
1548     int tempSecond;
1549     // Temporary storage */
1550     Boolean default = BOOL_FALSE;
1551     // Flag if the date could not be changed */
1552     if (!TBDU_GetSelected ((TBDU_REST_RestoreWin->IOWPartiaIButton))
1553         & flags == BACKUP_SELECTION_FLAG_PARTIAL_OK)
1554     {
1555         flags = BACKUP_SELECTION_FLAG_CONFIRM_ONLY;
1556     }
1557     // Get the adjusted month and year */
1558     tempMonth = newMonth;
1559     tempYear = newYear;
1560     GETIME_UpdateDate (&startDay,
1561                       &tempMonth,
1562                       &tempYear,
1563                       BOOL_FALSE);
1564     //
1565     // Determine if the user is going past the current day, don't allow
1566     // it since there can't be any future backups (I hope)
1567     //
1568     // Get the current date */
1569     restCallCg c 33

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1560 GETIME_GetCurrentDate (&currentDay, &currentMonth, &currentYear);
1561 if ((tempYear == currentYear) && (tempMonth > currentMonth))
1562 {
1563     //
1564     // If this is not a month update, determine the most recent month
1565     // and go there
1566     //
1567     if (!isMonthUpdate)
1568     {
1569         // Display the error message */
1570         GALENT_DisplayError ((WinPtr)REST_CalendarWindow,
1571                             REST_GetErrorString (REST_WARNING_INDEX),
1572                             GIDON_GetWarning(),
1573                             REST_GetWarningString (REST_NO_FUTURE_MESSAGES));
1574         mostRecentTime = REST_CalendarGetMostRecentTime ();
1575     }
1576     // If there is a more recent time */
1577     if (mostRecentTime != 0)
1578     {
1579         // Get the components of the time */
1580         GETIME_BreakDownTime (mostRecentTime, &tempHour,
1581                               &tempMinute,
1582                               &tempSecond,
1583                               &tempDay,
1584                               &tempMonth,
1585                               &tempYear);
1586         REST_UpdateLastDisplayedDate ();
1587     }
1588     default = BOOL_TRUE;
1589     }
1590     // Determine if this is a previous or next operation */
1591     if ((tempYear < displayedYear) ||
1592         ((tempYear == displayedYear) && (tempMonth < displayedMonth)))
1593     {
1594         // (tempYear == BOOL_FALSE);
1595         previous = BOOL_FALSE;
1596     }
1597     // Get the last time in the month */
1598     GETIME_GetTimeInMonth (GETIME_GetYearMonth (tempMonth, tempYear),
1599                           tempMonth,
1600                           tempYear,
1601                           HOURS_PER_DAY - 1,
1602                           MINUTES_PER_HOUR - 1,
1603                           &lastDay,
1604                           &lastMinute,
1605                           &lastSecond);
1606     // If there are no backups in this or any previous/next month,
1607     // warn user */
1608     if (!dateFalt && !REST_BackupExistsInMonth (tempMonth, tempYear))
1609     {
1610         if (previous)
1611         {
1612             status = EMRST_IsTherePreviousBackupForTime (GREST_Handle,
1613                                                         endMonthTime,
1614                                                         flags,
1615                                                         &isThere);
1616         }
1617         if ((status == E_SUCCESS) && !isThere)
1618         {
1619             STR_Sprintf (outputString,
1620                         REST_GetErrorString (REST_NO_PREVIOUS_BACKUP),
1621                         restCallCg c 34

```

Page 251 of 444	REST_CalendarUpdateDate	Fri Jan 04 14:31:46 2008	Page 252 of 444	REST_CalendarPreviousMonth	Fri Jan 04 14:31:46 2008
1624 4	return GetMonthStart(tempMonth),		1681	/*.....	
1625 4	1900 + tempYear);		1682	REST_CalendarPreviousMonth	
1627 4	/* Display the error message */		1683	.....
1628 4	GALERT_DisplayError (WINPR,REST_CalendarWindow,		1684	* Description:	
1629 4	GALERT_GetMonthStart (REST_MWNING_INDEX,		1685	* This routine will handle the callback to update the displayed	
1631 4	outputString);		1686	* month to the previous month.	
1633 4			1687	* Parameters:	
1634 3	dateDefault = BOOL_TRUE;		1688	* None.	
1635 3			1689	* Returns:	
1636 3	{		1690	* None.	
1637 4	/* Error returned from EHMNST_IsTherePrevBackupForTimeIn */;		1691	.....
1638 4			1692	void REST_CalendarPreviousMonth (void)	
1639 4	/*		1693 1	{	
1640 2	status = EHMNST_IsThereNextBackupForTime (GREST_Handle,		1694 1	REST_CalendarUpdateDate {	
1641 2	else		1695	displayedMonth - 1, displayedYear, BOOL_TRUE);	
1642 2	{		1696	}	
1643 3	status = EHMNST_IsThereNextBackupForTime (GREST_Handle,				
1644 3	if ((status == E_SUCCESS) && !isThere)				
1645 3	if ((status == E_SUCCESS) && !isThere)				
1646 3	if ((status == E_SUCCESS) && !isThere)				
1647 3	if ((status == E_SUCCESS) && !isThere)				
1648 3	if ((status == E_SUCCESS) && !isThere)				
1649 4	if ((status == E_SUCCESS) && !isThere)				
1650 4	if ((status == E_SUCCESS) && !isThere)				
1651 4	if ((status == E_SUCCESS) && !isThere)				
1652 4	if ((status == E_SUCCESS) && !isThere)				
1653 4	if ((status == E_SUCCESS) && !isThere)				
1654 4	if ((status == E_SUCCESS) && !isThere)				
1655 4	if ((status == E_SUCCESS) && !isThere)				
1656 4	if ((status == E_SUCCESS) && !isThere)				
1657 4	if ((status == E_SUCCESS) && !isThere)				
1658 4	if ((status == E_SUCCESS) && !isThere)				
1659 4	if ((status == E_SUCCESS) && !isThere)				
1660 4	if ((status == E_SUCCESS) && !isThere)				
1661 4	if ((status == E_SUCCESS) && !isThere)				
1662 3	if ((status == E_SUCCESS) && !isThere)				
1663 3	if ((status == E_SUCCESS) && !isThere)				
1664 4	if ((status == E_SUCCESS) && !isThere)				
1665 4	if ((status == E_SUCCESS) && !isThere)				
1666 4	if ((status == E_SUCCESS) && !isThere)				
1667 4	if ((status == E_SUCCESS) && !isThere)				
1668 3	if ((status == E_SUCCESS) && !isThere)				
1669 1	if ((status == E_SUCCESS) && !isThere)				
1670 1	if ((status == E_SUCCESS) && !isThere)				
1671 1	if ((status == E_SUCCESS) && !isThere)				
1672 1	if ((status == E_SUCCESS) && !isThere)				
1673 2	if ((status == E_SUCCESS) && !isThere)				
1674 2	if ((status == E_SUCCESS) && !isThere)				
1675 2	if ((status == E_SUCCESS) && !isThere)				
1676 2	if ((status == E_SUCCESS) && !isThere)				
1677 2	if ((status == E_SUCCESS) && !isThere)				
1678 1	if ((status == E_SUCCESS) && !isThere)				
1679	if ((status == E_SUCCESS) && !isThere)				

```

1703 /
1704 * REST_CalendarNextMonth
1705
1706 * Description:
1707 * This routine will handle the callback to update the displayed
1708 * month to the next month.
1709
1710 * Parameters:
1711 * None.
1712
1713 * Returns:
1714 * None.
1715
1716 void REST_CalendarNextMonth (void)
1717 {
1718     REST_CalendarUpdateDate (
1719         displayedMonth + 1, displayedYear, BOOL_TRUE);
1720 }
1721

```

```

1722 /
1723 * REST_CalendarPreviousYear
1724
1725 * Description:
1726 * This routine will handle the callback to update the displayed
1727 * year to the previous year.
1728
1729 * Parameters:
1730 * None.
1731
1732 * Returns:
1733 * None.
1734
1735 void REST_CalendarPreviousYear (void)
1736 {
1737     REST_CalendarUpdateDate (
1738         displayedMonth, displayedYear - 1, BOOL_FALSE);
1739 }
1740

```

```

1741 */
1742 * REST_CalendarNextYear
1743 *
1744 * Description:
1745 * This routine will handle the callback to update the displayed
1746 * Year to the next Year.
1747 *
1748 * Parameters:
1749 * None.
1750 *
1751 * Returns:
1752 * None.
1753 *
1754 *
1755 */
1756 void REST_CalendarNextYear (void)
1757 {
1758     REST_CalendarUpdateDate (
1759         displayedMonth, displayedYear + 1, BOOL_FALSE);
1760 }
1761
1762
1763
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```

```

1762 */
1763 * REST_CalendarToday
1764 *
1765 * Description:
1766 * This routine will handle the most recent button callback, it will
1767 * display the month with the most recent backup and will select the
1768 * most recent backup.
1769 *
1770 * Parameters:
1771 * None.
1772 *
1773 * Returns:
1774 * None.
1775 *
1776 *
1777 */
1778 void REST_CalendarToday (void)
1779 {
1780     time_t mostRecentTime = 0; /* Time of most recent backup */
1781     int selectHour; /* Temporary storage */
1782     int selectMinutes; /* Temporary storage */
1783
1784     mostRecentTime = REST_CalendarGetMostRecentTime ();
1785
1786     /* If there is a more recent time */
1787     if (mostRecentTime != 0)
1788     {
1789         /* Redraw the old selected day (has affect of unselecting) */
1790         REST_DrawSelectedDay (BOOL_FALSE);
1791
1792         /* Set the selected time to the most recent backup */
1793         currentSelectedTime = mostRecentTime;
1794
1795         /* Get the components of the time */
1796         gTime_BreakDownTime (currentSelectedTime,
1797             &selectDay,
1798             &selectMonth,
1799             &selectYear,
1800             &selectMinutes);
1801
1802         /* Display the most recent date */
1803         displayedMonth = selectMonth;
1804         displayedYear = selectYear;
1805         REST_UpdateDisplayedDate();
1806
1807         /* Draw the newly selected day */
1808         REST_DrawSelectedDay (BOOL_TRUE);
1809     }
1810 }
1811
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```

1815 /.....
1816 * REST_CalendarCancel
1817 *
1818 * Description:
1819 * This routine will cancel the restore calendar window. It will
1820 * set the selected time to time 0, indicating the cancel action.
1821 *
1822 * Parameters:
1823 * None.
1824 *
1825 * Returns:
1826 * BOOL_TRUE - If the cancel was effective
1827 * BOOL_FALSE - If the cancel was already in place
1828 *
1829 *.....*/
1830
1831 BoolEnum REST_CalendarCancel (void)
1832 {
1833     /* If we haven't terminated yet, cancel */
1834     if (!REST_CalTerminated)
1835     {
1836         currentSelectedTime = 0;
1837         WIN_ModalReturn((WinPtr)REST_CalendarWindow, (ClientPtr)NULL);
1838     }
1839     return (REST_CalTerminated);
1840 }
1841
1842
1843

```

```

1845 /.....
1846 * REST_CalendarOK
1847 *
1848 * Description:
1849 * This routine will close the restore calendar window with a new
1850 * selected time.
1851 *
1852 * Parameters:
1853 * None.
1854 *
1855 * Returns:
1856 * None.
1857 *
1858 *.....*/
1859
1860 void REST_CalendarOK (void)
1861 {
1862     WIN_ModalReturn((WinPtr)REST_CalendarWindow, (ClientPtr)NULL);
1863 }
1864
1865

```



```

1869 1      /* Get the current date */
1870 1      gTime_GetCurrentDate (&currentTime, &currentMonth, &currentYear);
1871 1      /* Flag that we have initialized the boxes */
1872 1      boxesInitd = BOOL_TRUE;
1873 1
1874 1      /* If the called passed a time, use it */
1875 1      if (currentTime != 0)
1876 1          currentSelectedTime = currentTime;
1877 1
1878 1      /* Otherwise, use the current backup time */
1879 1      else if (EDMRST_GetCurrentBackupTime (&gREST_Handle,
1880 1          currentSelectedTime) !=
1881 1          E_SUCCESS)
1882 2      {
1883 2          return (0);
1884 1      }
1885 1
1886 1      /* Break down the time to get the current month and year to display */
1887 1
1888 1      gTIME_BreakDownTime (currentSelectedTime,
1889 1          &selectedDay,
1890 1          &selectedMonth,
1891 1          &selectedYear,
1892 1          &selectedHour,
1893 1          &selectedMinutes);
1894 1      displayedMonth = selectedMonth;
1895 1      displayedYear = selectedYear;
1896 1
1897 1      /* Set the window title to the default settings */
1898 1      STR_Copy (name, EDMRST_GetObjectFullName (gREST_Handle, currentWT));
1899 1      gUTIL_SetDefaultWindowTitle ((WinPtr) REST_CalendarWindow, name);
1900 1
1901 1      /* Display the current date */
1902 1      REST_UpdateDisplayedDate ();
1903 1
1904 1      /* Reset the terminated flag */
1905 1      REST_CalTerminated = BOOL_FALSE;
1906 1
1907 1      /* Position the window and go on our merry way */
1908 1      gWIN_CenterWindowInParent ((WinPtr) REST_CalendarWindow);
1909 1      WIN_ModalProcess ((WinPtr) REST_CalendarWindow);
1910 1
1911 1      EVENT_ProcessPending ();
1912 1
1913 1      /* Flag that we are done, and terminate the window */
1914 1      REST_CalTerminated = BOOL_TRUE;
1915 1      WIN_Terminate ((WinPtr) REST_CalendarWindow);
1916 1
1917 1      /* return the selected time */
1918 1      return (currentSelectedTime);
1919 1

```


1	/* -- Template created by NEURON DATA Open Interface.	61	static Boolean REST_VerifySpace (RestDescWinPtr win,
2	/* -- Do not alter 'CodeGen' directives.	62	STR hostname,
3	/* ((CodeGen: GeneratorVersion 4))	63	STR directory)
4	/*	64	{
5	/* -- Code generated on 09/03/99 at 10:48:08.	65	struct fs_entry *entries;
6	/* ((CodeGen: CodeHistory))	66	int status;
7	/*	67	restoreststring[64];
8	/*	68	/* Mount point entries received */
9	/*	69	/* Return status */
10	#define ERR_LIB RESTORE	70	Char
11	#include <stdlib.h>	71	/* String for space needed */
12	#include <stdlib.h>	72	availablestring[64];
13	#include <stdio.h>	73	/* String for space available */
14	#include <fcntl.h>	74	restorestsize;
15	/* WARNING: UNIX DEPENDENCY!!! Used for polling sockets */	75	/* Space needed for restore */
16	#include <sys/types.h>	76	ksize;
17	#include <unistd.h>	77	/* IK representation as hyper */
18	#include <unistd.h>	78	availablesize;
19	#include <unistd.h>	79	/* Space available */
20	#include <unistd.h>	80	restorestsize;
21	#include <unistd.h>	81	/* Number of files to be restored */
22	#include <unistd.h>	82	badfiles;
23	#include <unistd.h>	83	/* Number of bad files */
24	#include <unistd.h>	84	OKRestore = BOOL_TRUE;
25	#include <unistd.h>	85	/* Flag if OK to proceed */
26	#include <unistd.h>	86	/* Validate the parameters */
27	#include <unistd.h>	87	if ((hostname != NULL) && (STR_Len(hostname) > 0) &&
28	#include <unistd.h>	88	(directory != NULL) && (STR_Len(directory) > 0))
29	#include <unistd.h>	89	{
30	#include <unistd.h>	90	/* Get the filesystem info for the destination */
31	#include <unistd.h>	91	if ((tcp_get_fs_info(hostname,
32	#include <unistd.h>	92	directory,
33	#include <unistd.h>	93	entries,
34	#include <unistd.h>	94	ksize) == SVC_FAIL_SUCCEEDED) &&
35	#include <unistd.h>	95	(status == E_SUCCESS) &&
36	#include <unistd.h>	96	(entries != NULL)
37	#include <unistd.h>	97	{
38	#include <unistd.h>	98	/* Get the restore size in K */
39	#include <unistd.h>	99	EMREST_GetMarkedToRestore (GREST_Handle, restoreSize;
40	#include <unistd.h>	100	ksize = ul_to_kb (unsigned long)1024);
41	#include <unistd.h>	101	u_hyper, divide_by (restoreSize, ksize);
42	#include <unistd.h>	102	/* Get the space available (as a hyper) */
43	#include <unistd.h>	103	if ((tcp_get_hyperSpace (hostname,
44	#include <unistd.h>	104	directory,
45	#include <unistd.h>	105	entries,
46	#include <unistd.h>	106	ksize) == SVC_FAIL_SUCCEEDED) &&
47	#include <unistd.h>	107	(status == E_SUCCESS) &&
48	#include <unistd.h>	108	(entries != NULL)
49	#include <unistd.h>	109	{
50	#include <unistd.h>	110	/* If the restore size is greater than the available space */
51	#include <unistd.h>	111	if (u_hyper > restoreSize) {
52	#include <unistd.h>	112	if (u_hyper > restoreSize) {
53	#include <unistd.h>	113	Char outputstring[MX_STRING_LENGTH];
54	#include <unistd.h>	114	/* String to display */
55	#include <unistd.h>	115	{
56	#include <unistd.h>	116	/* Create the error question */
57	#include <unistd.h>	117	REST_SprintHyper (restoreststring, restoreSize);
58	#include <unistd.h>	118	REST_SprintHyper (availablestring, availableSize);
59	#include <unistd.h>	119	STR_Sprint (outputstring,
60	#include <unistd.h>	120	restoreststring (REST_SPACE_ERROR_FORMAT),
61	#include <unistd.h>	121	availablestring);
62	#include <unistd.h>	122	/* Ask the user if he/she wants to continue anyways */
63	#include <unistd.h>	123	if (GALBERT_DisplayQuestion (WAlertWin,
64	#include <unistd.h>	124	REST_determining (
65	#include <unistd.h>	125	REST_SPACE_ERROR_TITLE),
66	#include <unistd.h>	126	REST_SPACE_ERROR_TITLE),
67	#include <unistd.h>	127	REST_SPACE_ERROR_TITLE),
68	#include <unistd.h>	128	REST_SPACE_ERROR_TITLE),
69	#include <unistd.h>	129	REST_SPACE_ERROR_TITLE),
70	#include <unistd.h>	130	REST_SPACE_ERROR_TITLE),
71	#include <unistd.h>	131	REST_SPACE_ERROR_TITLE),
72	#include <unistd.h>	132	REST_SPACE_ERROR_TITLE),
73	#include <unistd.h>	133	REST_SPACE_ERROR_TITLE),
74	#include <unistd.h>	134	REST_SPACE_ERROR_TITLE),
75	#include <unistd.h>	135	REST_SPACE_ERROR_TITLE),
76	#include <unistd.h>	136	REST_SPACE_ERROR_TITLE),
77	#include <unistd.h>	137	REST_SPACE_ERROR_TITLE),
78	#include <unistd.h>	138	REST_SPACE_ERROR_TITLE),
79	#include <unistd.h>	139	REST_SPACE_ERROR_TITLE),
80	#include <unistd.h>	140	REST_SPACE_ERROR_TITLE),
81	#include <unistd.h>	141	REST_SPACE_ERROR_TITLE),
82	#include <unistd.h>	142	REST_SPACE_ERROR_TITLE),
83	#include <unistd.h>	143	REST_SPACE_ERROR_TITLE),
84	#include <unistd.h>	144	REST_SPACE_ERROR_TITLE),
85	#include <unistd.h>	145	REST_SPACE_ERROR_TITLE),
86	#include <unistd.h>	146	REST_SPACE_ERROR_TITLE),
87	#include <unistd.h>	147	REST_SPACE_ERROR_TITLE),
88	#include <unistd.h>	148	REST_SPACE_ERROR_TITLE),
89	#include <unistd.h>	149	REST_SPACE_ERROR_TITLE),
90	#include <unistd.h>	150	REST_SPACE_ERROR_TITLE),
91	#include <unistd.h>	151	REST_SPACE_ERROR_TITLE),
92	#include <unistd.h>	152	REST_SPACE_ERROR_TITLE),
93	#include <unistd.h>	153	REST_SPACE_ERROR_TITLE),
94	#include <unistd.h>	154	REST_SPACE_ERROR_TITLE),
95	#include <unistd.h>	155	REST_SPACE_ERROR_TITLE),
96	#include <unistd.h>	156	REST_SPACE_ERROR_TITLE),
97	#include <unistd.h>	157	REST_SPACE_ERROR_TITLE),
98	#include <unistd.h>	158	REST_SPACE_ERROR_TITLE),
99	#include <unistd.h>	159	REST_SPACE_ERROR_TITLE),
100	#include <unistd.h>	160	REST_SPACE_ERROR_TITLE),
101	#include <unistd.h>	161	REST_SPACE_ERROR_TITLE),
102	#include <unistd.h>	162	REST_SPACE_ERROR_TITLE),
103	#include <unistd.h>	163	REST_SPACE_ERROR_TITLE),
104	#include <unistd.h>	164	REST_SPACE_ERROR_TITLE),
105	#include <unistd.h>	165	REST_SPACE_ERROR_TITLE),
106	#include <unistd.h>	166	REST_SPACE_ERROR_TITLE),
107	#include <unistd.h>	167	REST_SPACE_ERROR_TITLE),
108	#include <unistd.h>	168	REST_SPACE_ERROR_TITLE),
109	#include <unistd.h>	169	REST_SPACE_ERROR_TITLE),
110	#include <unistd.h>	170	REST_SPACE_ERROR_TITLE),
111	#include <unistd.h>	171	REST_SPACE_ERROR_TITLE),
112	#include <unistd.h>	172	REST_SPACE_ERROR_TITLE),
113	#include <unistd.h>	173	REST_SPACE_ERROR_TITLE),
114	#include <unistd.h>	174	REST_SPACE_ERROR_TITLE),
115	#include <unistd.h>	175	REST_SPACE_ERROR_TITLE),

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116 4				176	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
117 4					static void C_PAR ReasDestWin_HiCalwaysSubtone LI(
118 4				177	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
					static void C_PAR ReasDestWin_HiCalwaysSubtone LI(
120 5	{			178 1	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
121 5	/* The user cancelled the restore */			179 1	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
122 5	OkRestore = BOOL_FALSE;			180	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
123 3	)				/* (( CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
124 3					static void C_PAR ReasDestWin_HiCalwaysSubtone LI(
126 3	/* IF it is still OK to restore */			182	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
127 3	if (OkRestore)				static void C_PAR ReasDestWin_HiCalwaysSubtone LI(
128 4	{			183 1	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
129 4	/* Get the number of marked files */			184 1	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
130 4	REST_GetNumMarkedInfo (&restoreFiles, &ndasfiles);			185 1	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
131 4	REST_GetNumMarkedInfo (&restoreFiles, &ndasfiles);			186	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
133 4	/* IF there is more files then available files (nodes) */				/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
134 4	if (restoreFiles > entries->files->files)				static void C_PAR ReasDestWin_HiCalwaysSubtone LI(
135 5	{				/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
136 5	Char outputString[MAX_STRING_LENGTH];			188	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
	/* String to display */				static void C_PAR ReasDestWin_HiCalwaysSubtone LI(
138 5				189	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
139 5	/* Create the error question */			190 1	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
140 5	STR_Sprintf (restoreString, "Add", restoreFiles);			191 1	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
141 5	STR_Sprintf (availableString, "Add", entries->files->files);			192	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
142 5	STR_Sprintf (outputString, "Add", entries->files->files);				/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
143 5	REST_GetErrorString (REST_MODE_ERROR_FORMAT,			194	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
144 5	availableString);				static void C_PAR ReasDestWin_HiCalwaysSubtone LI(
145 5				195	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
146 5				196 1	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
147 5	/* Ask the user if he/she wants to continue anyways */			197 1	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
148 5	if (GALERT_DisplayQuestion(WinPtrWin,			198	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
149 5	REST_GetErrorString(			199	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
150 5	GTCOM_GetErrorMsg(DE_ERROR_TITLE,				/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
151 5	outputString,				/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
	BOOL_FALSE) !=				/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
	GALERT_Affirmative)				/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
153 6	{			202	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
154 6	/* The user cancelled the restore */				static void C_PAR ReasDestWin_HiCalwaysSubtone LI(
155 6	OkRestore = BOOL_FALSE;			203 1	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
156 6				204 1	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
157 4	)			205 1	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
158 3				206	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
160 3	/* Free the entries returned */			208	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
161 3	free(&isInfo (&entries));				static void C_PAR ReasDestWin_HiCalwaysSubtone LI(
162 3				209	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
163 1	}			210 1	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
164 1				211 1	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
165 1	/* Return whether or not it is OK to proceed with the restore */			212 1	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
166 1	return (OkRestore);			213	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
167					/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
169				215	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
170	/* ((CodeGen: WindowSection Win				static void C_PAR ReasDestWin_HiCalwaysSubtone LI(
171	/* == Code for Window "Win"			216	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
172	/* ==			217 1	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
	/* ==			218 1	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
	/* ==			219	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*
173	/* ((CodeGen: MenuImpImplementationPlaceholder))			220	/* ((CodeGen: MyEventHandler HiCalwaysSubtone	/*	/*

```

222      /* (( CodeGen: MyWinHandler EltSelectedHostBox
223         static void C_PAN ReastDestWin_EltSelectedHostBox_L2(
224             {
225             ReastDestWin, win, ChoxEltsSelectedTypeCtrl, info)
226             // )) CodeGen: MyWinHandler EltSelectedHostBox
227
228         // (( CodeGen: MyWinHandler ValidateDirectoryTd
229         static void C_PAN ReastDestWin_ValidatedirectoryTd_L1(
230             {
231             ReastDestWinPtr, win)
232
233         // )) CodeGen: MyWinHandler ValidateDirectoryTd
234         static void C_PAN ReastDestWin_HitBrowseSubstn_L1(
235             ReastDestWinPtr, win)
236
237         // (( CodeGen: MyWinHandler HitBrowseSubstn
238         static void C_PAN ReastDestWin_HitBrowseSubstn_L1(ReastDestWinPtr, win)
239             Char
240                 hostname[MAX_CLIENT_NAME_LENGTH];
241                 // Host to restore to */
242             Char
243                 desthostname[MAX_CLIENT_NAME_LENGTH];
244                 // Host to restore to */
245             Char
246                 dirname[MAX_STRING_LENGTH];
247                 // Directory to restore to */
248             ReastInfoPtr tmpinfo;
249                 // Pointer to walk parents */
250             // If the user specified the location, update the location */
251             if (!TButton_GetSelected(TButtonPtr-win->InplaceSubstn))
252             {
253                 // Get the current destination host */
254                 STPM_COPY(desthostname, REST_CurrentDestHost(win));
255                 // Get the directory from the widget */
256                 STPM_COPY(dirname, REST_GetCtrl(TButtonPtr-win->DirectoryTd));
257                 // Standardize the pathname to accept NT style paths too e.g.,
258                 REST_StandardizePath(dirname);
259                 C_VXYZ */
260                 // Get the original host name
261                 // Find the client info */
262                 tmpinfo = CurrentHostKernInfo();
263                 while ((tmpinfo != NULL) && (tmpinfo->type != REST_Client))
264                     tmpinfo = tmpinfo->parent;
265             }

```

```

213 2 /* Make sure we have something */
214 2 if (tmpinfo != NULL)
215 3 {
216 3     STR_Cpy (hostname, tmpinfo->name);
217 3 }
218 2 else
219 2 {
220 2     STR_Cpy (hostname, "");
221 2 }
222 2
223 2 /*
224 2  * If a different host or the directory is not blank or */
225 2 * verify the space available
226 2 */
227 2 if ((STR_Cmp (desthostname, hostname) != CPE_EQUAL) ||
228 2     (STR_Cmp (dirname, "")) != CPE_EQUAL) &&
229 2     (STR_Cmp (dirname, "") != CPE_EQUAL))
230 3 {
231 3     /* Verify that there is enough space to restore to */
232 3     if (!REST_VerifySpace (win, desthostname, dirname))
233 4     {
234 4         return;
235 4     }
236 3 }
237 2 }
238 2
239 1 WIN_KernelReturn (WinPcrWin, (ClientPcr) BOOL_TRUE);
240 1 /* */ Codegen: MgrNtHandler HitCmpAction
241 1
242 100 1 /* ( Codegen: MgrNtHandler HitCancelAction
243 101 1 static void C_Pcr RestoreWin_HitCancelAction Ll {
244 102 1     RestoreWinPcr, win)
245 103 1 }
246 104 1 {
247 105 1     WIN_KernelReturn ((WinPcr)win, (ClientPcr) BOOL_FALSE);
248 106 1 }
249 107 1 /* */ Codegen: MgrNtHandler HitCancelAction
250 108 1 }
251 109 1 /* ( Codegen: MgrNtHandler HitReplAction
252 110 1 static void C_Pcr RestoreWin_HitReplAction Ll (RestoreWinPcr, win)
253 111 1 {
254 112 1     REST_DisplayYield (win);
255 113 1 }
256 114 1 /* */ Codegen: MgrNtHandler HitReplAction
257 115 1 {
258 116 1     /* ( Codegen: MgrNtPcrAccessOrder ) )
259 117 1 }
260 118 1 /* ( Codegen: UseDefaultNtHandler name_of_nxt_handler ) )
261 119 1 /* ( Codegen: UseAllDefaultNtHandlers name_of_wgl_member ) )
262 120 1 }
263 121 1 void
264 122 1 {
265 123 1     /* ( Codegen: WinInitializations
266 124 1     win->PolicyPanel = (PanelPcr) PANEL_GetNameMgmt((
267 125 1     win->PolicyPanel->PanelPcrWin, "PolicyPanel");
268 126 1     win->AlwaysButtons = (RbuiPcr) PANEL_GetNameMgmt((
269 127 1     PanelPcrWin, "AlwaysButtons");
270 128 1 }

```



```

440      BoolEnum      *Inplace,
441      Str            destHostame,
442      Str            OverwritePolicy,
443      BoolEnum      RestoreTransport, *transport)
444  {
445      RealDestWinPz win;
446      BoolEnum      retVal;
447
448      win = (RealDestWinPz)WIN_LoadedSize("resdest", "win",
449      sizeof(RealDestWinPz));
450      RealDestWinPz Construct(win);
451
452      WIN_Init((WinPz)win);
453
454      /* Set the window and icon labels */
455      GUITL_AddressFromWindowTitle ((WinPz)win);
456
457      /* Set the parent window */
458      if (parentWin != NULL)
459      {
460          WIN_SetParentWin ((WinPz)win, parentWin);
461          CWIN_CenterWindowInParent ((WinPz)win);
462      }
463
464      /* Set the initial state of the widows */
465      TRUMP_SetSelected ((TRUMPz)win->InplaceSubwin, BOOL_TRUE);
466      TRUMP_SetSelected ((TRUMPz)win->NetworkSubwin, BOOL_TRUE);
467      TRUMP_SetSelected ((TRUMPz)win->DirectorySubwin, BOOL_TRUE);
468
469      /* Initialize to SC restore, if not available it will fix itself */
470      TRUMP_SetSelected ((TRUMPz)win->SymmCombution, BOOL_TRUE);
471
472      /* UpdateRestoreHosts (win) :
473      REST_UpdateRestorePath (win) :
474      REST_UpdateDestPath (win) :
475      retVal = (BoolEnum)WIN_ModalProcess ((WinPz)win);
476
477      if (retVal)
478      {
479          /* Get the current destination host */
480          STR_Copy (destHostame, REST_GetCurrentDestHost(win));
481
482          /* If the user specified the location, update the location */
483          *Inplace = TRUMP_GetSelected ((TRUMPz)win->InplaceSubwin);
484          if (!*Inplace)
485          {
486              /* Get the directory from the widget, if allowed */
487              if (TRUMP_GetSelected ((TRUMPz)win->NetworkSubwin))
488              {
489                  STR_Copy (dirName, TRUMP_GetStr ((TRUMPz)win->DirectorySubwin));
490
491                  /* Standardize the pathname to accept NT style paths too e.g.,
492                  C:\XYZ */
493                  REST_StandardizePath(dirName);
494
495                  /* If the directory was left blank,
496                  start in the root directory */
497                  if (STR_Cmp (dirName, "") == CMP_EQUAL)
498                      STR_Copy (dirName, "");
499              }
500          }
501      }
502      /* Get the overwrite policy */
503      retDestCg =

```

```

484      if (TRUMP_GetSelected ((TRUMPz)win->AlwaysSubwin))
485          *policy = Always_Overwrite;
486      else if (TRUMP_GetSelected ((TRUMPz)win->OlderSubwin))
487          *policy = Older_Only_Overwrite;
488      else
489          *policy = Never_Overwrite;
490
491      /* Get the transport mechanism */
492      if (TRUMP_GetSelected ((TRUMPz)win->NetworkSubwin))
493          *transport = restoreTransportNetwork;
494      else if (TRUMP_GetSelected ((TRUMPz)win->TransportSubwin))
495          *transport = restoreTransportSCSI;
496      }
497
498      WIN_Remove ((WinPz)win);
499
500      EVENT_ProcessPending ();
501      return (retVal);
502  }
503

```


1	/*	67	/*	126	2	Page 277 of 444
2	resDestMgr.c	68	*****	3	resDestMgr.c 1	
3	/*	69	Constants	4		
4	/*	70	*****	5		
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6	/*	72	*****	7		
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16	N/A	82	None	17		
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67	#include <sys/errno.h>	133	1	68		
68	#include <sys/errno.h>	134	1	69		
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6	6		72	/*	*****		
7	7		73	/*	*****		
8	8		74	/*	*****		
9	9		75	/*	*****		
10	10		76	/*	*****		
11	11		77	/*	*****		
12	12		78	/*	*****		
13	13		79	/*	*****		
14	14		80	/*	*****		
15	15		81	/*	*****		
16	16		82	/*	*****		
17	17		83	/*	*****		
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20	20		86	/*	*****		
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25	25		91	/*	*****		
26	26		92	/*	*****		
27	27		93	/*	*****		
28	28		94	/*	*****		
29	29		95	/*	*****		
30	30		96	/*	*****		
31	31		97	/*	*****		
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33	33		99	/*	*****		
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48	48		114	/*	*****		
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55	55		121	/*	*****		
56	56		122	/*	*****		
57	57		123	/*	*****		
58	58		124	/*	*****		
59	59		125	/*	*****		
60	60		126	/*	*****		
61	61		127	/*	*****		
62	62		128	/*	*****		
63	63		129	/*	*****		
64	64		130	/*	*****		
65	65		131	/*	*****		
66	66		132	/*	*****		
67	67		133	/*	*****		
68	68		134	/*	*****		
69	69		135	/*	*****		
70	70		136	/*	*****		
71	71		137	/*	*****		
72	72		138	/*	*****		
73	73		139	/*	*****		
74	74		140	/*	*****		
75	75		141	/*	*****		
76	76		142	/*	*****		

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62	#include <sys/errno.h>	128	1	63		
63	#include <sys/errno.h>	129	1	64		
64	#include <sys/errno.h>	130	1	65		
65	#include <sys/errno.h>	131	1	66		
66	#include <sys/errno.h>	132	1	67		
67	#include <sys/errno.h>	133	1	68		
68	#include <sys/errno.h>	134	1	69		
69	#include <sys/errno.h>	135	1	70		
70	#include <sys/errno.h>	136	1	71		
71	#include <sys/errno.h>	137	1	72		
72	#include <sys/errno.h>	138	1	73		
73	#include <sys/errno.h>	139	1	74		
74	#include <sys/errno.h>					


```

127 2 /*
128 2
129 2 isSymmOK = BOOL_TRUE;
130 2 isNetworkOK = BOOL_TRUE;
131 2 }
132 2
133 2 { if (!isNetworkOK)
134 2     /* No OK to use network, so select the SymmConnect button */
135 2     TButton_Select ((TButton*)win->SymmConnect);
136 2 }
137 2
138 2 { if (!isSymmOK)
139 2     /* No OK to use symm connect, so select the network button */
140 2     TButton_Select ((TButton*)win->NetworkButton);
141 2 }
142 2
143 2 /* Set the visibility of the symm connect button */
144 2 GUITL_Win_SetEnabled ((Widget*)win->SymmConnectButton, !isSymmOK);
145 2 /* Set the visibility of the network button */
146 2 GUITL_Win_SetEnabled ((Widget*)win->NetworkButton, !isNetworkOK);
147 2
148 2 /* Update the destination sensitivity */
149 2 RST_UpdateDestinationSensitivity (win);
150 2
151 2 }
152 2
153 2 }
154 2
155 2 /* REST_GetCurrentDestHost
156 2
157 2 * Description:
158 2     This routine will determine the current destination host.
159 2     If the user
160 2     has selected a host it will return that host, otherwise on one,
161 2     return the current source host if the user is working on one,
162 2     it will simply return the local host.
163 2
164 2 * Parameters:
165 2     None.
166 2
167 2 * Returns:
168 2     None.
169 2
170 2 */
171 2
172 2 Str REST_GetCurrentDestHost ((RestDestWinPtr win)
173 2 {
174 2     static Char destHostName[MAX_CLIENT_NAME_LENGTH];
175 2     /* Current dest host */
176 2     RestoreInfo tmpInfo;
177 2     /* Pointer to walk list */
178 2
179 2     /* Get the current selected host, if the user has chosen one */
180 2     if (CBox_HasChoice (win->HostBox))
181 2     {
182 2         STR_Copy (destHostName, CBox_ChosenTextLabel(win->HostBox));
183 2     }
184 2     else
185 2     {
186 2         /* Get the current source client
187 2         */
188 2     }
189 2 }
190 2
191 2 /* Use the current info */
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189 2
190 2 if (currentWorkItemInfo != NULL)
191 2     tmpInfo = currentWorkItemInfo;
192 2 else
193 2     tmpInfo = NULL;
194 2
195 2 /* Find the client for this restore */
196 2 while ((tmpInfo != NULL) && (tmpInfo->type != REST_Client))
197 2     tmpInfo = tmpInfo->parent;
198 2
199 2
200 2 /* If we found the client get its name */
201 2 if (tmpInfo != NULL)
202 2 {
203 2     STR_Copy (destHostName, tmpInfo->name);
204 2 }
205 2 else
206 2 {
207 2     /* Didn't find it, use the current host */
208 2     STR_Copy (destHostName, GUITL_GetThisHost());
209 2 }
210 2
211 2 return (destHostName);
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352 2 /* Get the platform type for the host */
353 2 if (status == BSM31_UnknownPlatformType
354 2     &platformType ==
355 2     E_SUCCESS)
356 3 {
357 3     /* Can only browse UNIX or NT clients */
358 3     if ((platformType == BUDR_PLATFORM_UNIX) ||
359 3         (platformType == BUDR_PLATFORM_NT))
360 3     {
361 3         sensitive = BOOL_TRUE;
362 3     }
363 3     /* All others, don't allow browsing */
364 3     else
365 3     {
366 3         sensitive = BOOL_FALSE;
367 3     }
368 3     /* Unable to get platform type */
369 2     else
370 2     {
371 2         REST_DisplayErrorMessage ((WinPrt)win, NULL, NULL, status);
372 3     }
373 3     /* Assume we can browse,
374 3     browser will tell us later if we can't */
375 3     sensitive = BOOL_TRUE;
376 3     }
377 3     /* This is an inplace restore, no browsing necessary */
378 3     else
379 3     {
380 3         sensitive = BOOL_FALSE;
381 3     }
382 2     }
383 1     }
384 1     GUTtl_Wgt_SetEnabled ((WinPrt)win->BrowseButton, sensitive);
385 1     }
386 1     }
387 1     }
388 1     }
389 1     }
390 1     }
391 1     }
392 1     }
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376 1      Int                                     /* Number of hosts returned */
377 1      eerrorno;                               /* Error status */

378 1      /* Find the client info */
379 1      tmpinfo = tmpinfo->parent;
380 1      while (tmpinfo != NULL) && (tmpinfo->type != REST_client)
381 1      {
382 1          tmpinfo = tmpinfo->parent;
383 1      }

384 1      /* Make sure we have something */
385 1      if (tmpinfo != NULL)
386 1      {
387 1          /* First, clear out any old hosts: */
388 1          CBXG_First(win->hostbox);
389 1          while (CBXG_IsOK(win->hostbox))
390 1          {
391 1              CBXG_First(win->hostbox);
392 1              CBXG_CurrentEmit(win->hostbox);
393 1          }
394 1      }

395 1      /* Allocate temporary storage for the hosts to be returned */
396 2      for (i = 0; i < HOSTS_BUFFER_LENGTH; i++)
397 2      {
398 2          host[i] = (char *) GUTIL_Malloc (
399 2              MAX_CLIENT_NAME_LENGTH * sizeof(char));
400 2      }

401 2      /* Get all the templates for the new work item */
402 2      while (cookie != DONE_COOKIE)
403 2      {
404 2          if (eerrorno == EDNRST_GetDestinationHosts (GREST_Handle,
405 2              HOSTS_BUFFER_LENGTH,
406 2              hostnames,
407 2              cookies)) == E_SUCCESS)
408 2          {
409 2              /* Add all the hosts to the list */
410 2              for (i=0; i<numhosts; i++)
411 2              {
412 2                  /* Add this host to the combo box, sorted */
413 2                  CBXG_AddStrToCBox (win->hostbox, host[i]);
414 2              }
415 2              /* By default, select the work-item's source host */
416 2              if (STR_Cmp (tmpinfo->name, host[i]) == CMP_EQUAL)
417 2              {
418 2                  CBXG_CurrentSelect (win->hostbox);
419 2              }
420 2          }
421 2          else
422 2          {
423 2              REST_DisplayErrorMessage ((WinPtr)win, NULL, eerrorno);
424 2          }
425 2          /* Just got out */
426 2          cookie = DONE_COOKIE;
427 2      }
428 2      /* Free up the temporary storage */
429 2      for (i = 0; i < HOSTS_BUFFER_LENGTH; i++)
430 2          GUTIL_Free (host[i]);
431 2      }
432 2      return (win->hostbox);
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1000 1      }

```

```
501 * None.
502
503 ...../
504
505 void REST_DeactDisplayHelp (ReetDeactWinPtr win)
506 {
507     ERMHELP_Display ((WinPtr)win, REST_MODID, REST_DESTINATION_OPTIONS);
508 }
```



```

1  /
2  * restFileMgr.c
3  *
4  *
5  * Copyright 1996 by Epoch Systems, Inc.
6  *
7  *
8  * Mission Statement:
9  *   This file contains the functions necessary for the file manager
10  *   portion of the ESM Restore window.
11  *
12  * Required Includes:
13  *   None
14  *
15  * Compile-Time Options:
16  *   N/A
17  *
18  *
19  * RCS Information:
20  *   $RCSfile$
21  *   $Revision$
22  *   $Source$
23  *
24  *
25  #define ERR_LIB RESTORE
26
27 #include <asl_c_portable.h>
28 #include <asl_weg_xopen.h>
29
30 #include <cardlib.h>
31
32 #include <libgen.h>
33 #include <time.h>
34
35 #include <argpub.h>
36 #include <cardpub.h>
37 #include <crippub.h>
38 #include <csupub.h>
39 #include <csupub.h>
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48 #include <csupub.h>
49 #include <csupub.h>
50 #include <csupub.h>
51 #include <csupub.h>
52
53 #include <errno.h>
54 #include <util/asl_string.h>
55 #include <restore/restore_api.h>
56 #include <restore/restore.h>
57 #include <restore.h>
58 #include <restore.h>
59 #include <restore.h>
60 #define REST_FILE_INT
61 #include <restFileMgr.h>
62 #include <restCalendar.h>
63 #include <restSearch.h>
64 #include <restFileMgr.h>
65 #include <restFileMgr.h>
66 #include <restFileMgr.h>

```

```

67 #include "restFileMgr.h"
68 #include "util/errno.h"
69 #include "util/errno.h"
70 #include "util/errno.h"
71 #include "util/errno.h"
72 #include "util/errno.h"
73 #include "util/errno.h"
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76 #include "util/errno.h"
77 #include "util/errno.h"
78 #include "util/errno.h"
79 #include "util/errno.h"
80 #include "util/errno.h"
81 #include "util/errno.h"
82
83 ERR_EXTERN
84 ERR_MODULE("restore")
85
86 * Constants *
87 *****
88
89 #define NUMBER_ITEMS_COLUMNS 9
90
91 *****
92
93 #include "util/errno.h"
94
95 *****
96
97 *****
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99 *****
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127  /*****
128  * REST_IsReReadInProgress
129  *
130  * Description:
131  * This routine will determine if a re-read of a work-item is
132  *   currently
133  *   in progress.
134  *
135  * Parameters:
136  *   None.
137  *
138  * Returns:
139  *   BOOL_TRUE - If there is a re-read in progress.
140  *   BOOL_FALSE - otherwise
141  * *****/
142  BOOLEnum REST_IsReReadInProgress (void)
143  {
144  }
145  return (reReadInProgress);
146  }

```

```

148  /*****
149  * REST_SelfReReadInProgress
150  *
151  * Description:
152  * This routine will set the re-read in progress status to the given
153  *   status.
154  *
155  * Parameters:
156  *   status (I) - Flag if there is a re-read in progress
157  *
158  * Returns:
159  *   None.
160  * *****/
161  void REST_SelfReReadInProgress (BOOLEnum status)
162  {
163  reReadInProgress = status;
164  }

```



```

376 2         if (info->type == REST_WorkItem)
377 1             STR_Copy (returnString, "");
378 1         }
379 2     }
380 2     /* If it is a failed workitem draw nothing */
381 2     else if (info->type == REST_FailedWorkItem)
382 3         STR_Copy (returnString, "");
383 1     }
384 2     /* If it is an error object draw nothing */
385 2     else if (info->type == REST_ErrorObject)
386 3         STR_Copy (returnString, "");
387 1     }
388 3     /* else draw the date string */
389 2     else
390 2     {
391 2         STR_Copy (returnString, REST_GetDateString (info));
392 2     }
393 2     *justification = DRAW_JUSTLEFT | DRAW_JUSTCENTER;
394 2     break;
395 2
396 2
397 2     case 9:
398 2     /* If it is a work item or a database object draw nothing */
399 2     if (info->type == REST_WorkItem)
400 2     {
401 3         STR_Copy (returnString, "");
402 3     }
403 3     /* If it is a failed workitem draw nothing */
404 3     else if (info->type == REST_FailedWorkItem)
405 3     {
406 3         STR_Copy (returnString, "");
407 3     }
408 2     /* If it is an error object draw nothing */
409 2     else if (info->type == REST_ErrorObject)
410 3     {
411 3         STR_Copy (returnString, "");
412 3     }
413 2     /* else draw the time string */
414 2     else
415 2     {
416 3         STR_Copy (returnString, REST_GetTimeString (info));
417 3     }
418 2     *justification = DRAW_JUSTLEFT | DRAW_JUSTCENTER;
419 2     break;
420 2
421 2     default:
422 2         STR_Copy (returnString, "");
423 2         *justification = DRAW_JUSTLEFT | DRAW_JUSTCENTER;
424 2         break;
425 2     }
426 1
427 1
428 1

```

```

410 1     /*
411 1     * REST_ShowPath
412 1     * Description:
413 1     * This routine will display the full path name for the given object
414 1     * Parameters:
415 1     * fullPath (I) - The full path to display.
416 1     * Returns:
417 1     * None.
418 1     */
419 1     *****
420 1
421 1     void REST_ShowPath (SEI fullPath)
422 1     {
423 1         /* Set the path where to the given full path */
424 1         TSP_Setter (TSPGet(REST_NamespaceName->pathInfo), fullPath);
425 1     }
426 1

```

Page 289 of 444	restfilemgr.c 11	Fri Jan 04 14:31:46 2008	
430	/*.....	432	/*.....
431	REST_ShowObject	433	REST_GetBackupView
432	* Description:	434	* Description:
433	This routine will display the given object in the file manager	435	* This routine will display the object with the given full name
434	and select it.	436	* at the given backup time.
435	Parameters:	437	* Parameters:
436	object (I) - The Object to display.	438	* backupTime (I) - The time for the backup to display
437		439	* ItemFullName (I) - The full name of the object to display
438	Returns:	440	* Returns:
439	None.	441	* None.
440	.....	442	.....
441	void REST_ShowObject (RestoreInfoPtr object)	443	void REST_GetBackupView (time_t backupTime,
442	{	444	Set ItemFullName)
443	/* Validate the object */	445	{
444	if (object == NULL)	446	RestoreInfoPtr info;
445	{	447	/* The info for the given name */
446	/* First show the parent object */	448	RestoreInfoPtr selectObj;
447	if (object->parent == NULL)	449	/* Currently selected object */
448	{	450	errorno_t
449	REST_ShowObject (object->parent);	451	currentBackupTime; /* Time of the current backup */
450		452	time_t
451	/* Open the parent */	453	u_long
452	OPEN_OpenObject (fileMgrContext, object->parent);	454	Flags;
453		455	if (TRUE) {REST.RestoreObjct->AllowPartialButton)
454		456	flag = BACKUP_SELECTION_FLAG_PARTIAL_OK;
455		457	else
456		458	flag = BACKUP_SELECTION_FLAG_COMPLETE_ONLY;
457		459	
458	/* Now select this object */	460	/* Get the current backup time */
459	OPEN_SelectObject (fileMgrContext, {	461	if ((errorno = EDKMSST_GetCurrentBackupTime (GREST_Handle,
460	OPEN_SelectObject (REST_GetFullName(object));	462	currentBackupTime)) !=
461	REST_SetSelectionString (REST_GetFullName(object));	463	0)
462		464	{
463	/* Set the current path to the selected item */	465	/* Hmm... I guess we just use time zero */
464	if ((object->type == REST_Client) || {	466	currentBackupTime = 0;
465	object->type == REST_WorkItem)	467	
466		468	
467	REST_ShowPath ("");	469	/* If the backup time is different then the current backup time */
468		470	if ((backupTime != 0) && (backupTime != currentBackupTime))
469	else	471	{
470	REST_ShowPath (REST_GetFullName(object));	472	
471		473	
472		474	/* Set the backup to the given time */
473		475	if ((errorno = EDKMSST_SetBackupForTime (
474		476	GREST_Handle, backupTime, flags)) == 0)
475		477	{
476		478	
477		479	/* Update the date */
478		480	if (currentWorkItemInfo != NULL)
479		481	{
480		482	REST_UpdateBackupDate ();
481		483	
482		484	
483		485	else
484		486	{
485		487	char outputString[2 * GMAX_OBJECT_LENGTH];
486		488	
487		489	/* couldn't switch, create the error message */
488		490	str_sprintf (outputString,
489		491	REST_GetErrorMessage (REST_BACKUP_TIME_SWITCH_ERROR,
490		492	REST_GetTimeAsString (backupTime));
491		493	

Page 300 of 444	REST_SelBackupView	Fri Jan 04 14:31:46 2008	
432	/*.....	432	/*.....
433	REST_SelBackupView	433	REST_GetBackupView
434	* Description:	434	* Description:
435	This routine will display the object with the given full name	435	* This routine will display the object with the given full name
436	at the given backup time.	436	* at the given backup time.
437	Parameters:	437	* Parameters:
438	object (I) - The Object to display.	438	* backupTime (I) - The time for the backup to display
439		439	* ItemFullName (I) - The full name of the object to display
440	Returns:	440	* Returns:
441	None.	441	* None.
442	.....	442	.....
443	void REST_SelBackupView (time_t backupTime,	443	void REST_GetBackupView (time_t backupTime,
444	Set ItemFullName)	444	Set ItemFullName)
445	{	445	{
446	RestoreInfoPtr info;	446	RestoreInfoPtr info;
447	/* The info for the given name */	447	/* The info for the given name */
448	RestoreInfoPtr selectObj;	448	RestoreInfoPtr selectObj;
449	/* Currently selected object */	449	/* Currently selected object */
450	errorno_t	450	errorno_t
451	currentBackupTime; /* Time of the current backup */	451	currentBackupTime; /* Time of the current backup */
452	time_t	452	time_t
453	u_long	453	u_long
454	Flags;	454	Flags;
455	if (TRUE) {REST.RestoreObjct->AllowPartialButton)	455	if (TRUE) {REST.RestoreObjct->AllowPartialButton)
456	flag = BACKUP_SELECTION_FLAG_PARTIAL_OK;	456	flag = BACKUP_SELECTION_FLAG_PARTIAL_OK;
457	else	457	else
458	flag = BACKUP_SELECTION_FLAG_COMPLETE_ONLY;	458	flag = BACKUP_SELECTION_FLAG_COMPLETE_ONLY;
459		459	
460	/* Get the current backup time */	460	/* Get the current backup time */
461	if ((errorno = EDKMSST_GetCurrentBackupTime (GREST_Handle,	461	if ((errorno = EDKMSST_GetCurrentBackupTime (GREST_Handle,
462	currentBackupTime)) !=	462	currentBackupTime)) !=
463	0)	463	0)
464	{	464	{
465	/* Hmm... I guess we just use time zero */	465	/* Hmm... I guess we just use time zero */
466	currentBackupTime = 0;	466	currentBackupTime = 0;
467		467	
468		468	
469	/* If the backup time is different then the current backup time */	469	/* If the backup time is different then the current backup time */
470	if ((backupTime != 0) && (backupTime != currentBackupTime))	470	if ((backupTime != 0) && (backupTime != currentBackupTime))
471	{	471	{
472		472	
473		473	
474	/* Set the backup to the given time */	474	/* Set the backup to the given time */
475	if ((errorno = EDKMSST_SetBackupForTime (	475	if ((errorno = EDKMSST_SetBackupForTime (
476	GREST_Handle, backupTime, flags)) == 0)	476	GREST_Handle, backupTime, flags)) == 0)
477	{	477	{
478		478	
479		479	
480	/* Update the date */	480	/* Update the date */
481	if (currentWorkItemInfo != NULL)	481	if (currentWorkItemInfo != NULL)
482	{	482	{
483	REST_UpdateBackupDate ();	483	REST_UpdateBackupDate ();
484		484	
485		485	
486	else	486	else
487	{	487	{
488	char outputString[2 * GMAX_OBJECT_LENGTH];	488	char outputString[2 * GMAX_OBJECT_LENGTH];
489		489	
490	/* couldn't switch, create the error message */	490	/* couldn't switch, create the error message */
491	str_sprintf (outputString,	491	str_sprintf (outputString,
492	REST_GetErrorMessage (REST_BACKUP_TIME_SWITCH_ERROR,	492	REST_GetErrorMessage (REST_BACKUP_TIME_SWITCH_ERROR,
493	REST_GetTimeAsString (backupTime));	493	REST_GetTimeAsString (backupTime));
494		494	

Page 300 of 444	REST_SabBackupView	Fri Jan 04 14:31:46 2008	
492	/*.....	493	/*.....
493	REST_SabBackupView	494	REST_GetBackupView
494	Description:	495	* Description:
495	This routine will display the object with the given full name	496	* This routine will display the object with the given full name
496	at the given backup time.	497	* at the given backup time.
497	Parameters:	498	* Parameters:
498	object (I) - The Object to display	499	* backupTime (I) - The time for the backup to display
499	ItemFullName (I) - The full name of the object to display	500	* ItemFullName (I) - The full name of the object to display
500	Returns:	501	* Returns:
501	None.	502	* None.
502	.....	503	.....
503	void REST_SabBackupView (time_t backupTime,	504	Set ItemFullName)
504	{	505	{
505	RestoreInfoPtr info;	506	/* The info for the given name */
506	/* Currently selected object */	507	RestoreInfoPtr selectObj;
507	errorno_t	508	/* Currently selected object */
508	currentBackupTime; /* Time of the current backup */	509	errorno_t
509	time_t	510	currentBackupTime; /* Time of the current backup */
510	u_long	511	Flags;
511	Flags;	512	if (TRUE) {REST.RestoreObjct->allowPartialButton)
512	if (TRUE) {REST.RestoreObjct->allowPartialButton)	513	flag = BACKUP_SELECTION_FLAG_PARTIAL_OK;
513	flag = BACKUP_SELECTION_FLAG_PARTIAL_OK;	514	else
514	flag = BACKUP_SELECTION_FLAG_COMPLETE_ONLY;	515	flag = BACKUP_SELECTION_FLAG_COMPLETE_ONLY;
515		516	
516	/* Get the current backup time */	517	/* Get the current backup time */
517	if ((errorno = EDKMSST_GetCurrentBackupTime (GREST_Handle,	518	currentBackupTime)) !=
518	currentBackupTime)) !=	519	0)
519	0)	520	{
520		521	
521		522	/* Set the backup to the given time */
522	if ((errorno = EDKMSST_SetBackupForTime (GREST_Handle,	523	currentBackupTime)) !=
523	currentBackupTime)) !=	524	0)
524	0)	525	{
525		526	/* Hmm... I guess we just use time zero */
526		527	currentBackupTime = 0;
527		528	
528		529	/* If the backup time is different then the current backup time */
529		530	if ((backupTime != 0) && (backupTime != currentBackupTime))
530		531	{
531		532	
532		533	
533		534	/* Set the backup to the given time */
534		535	if ((errorno = EDKMSST_SetBackupForTime (
535		536	GREST_Handle, backupTime, flags)) == 0)
536		537	{
537		538	
538		539	/* Update the date */
539		540	if (currentWorkItemInfo != NULL)
540		541	{
541		542	REST_UpdateBackupDate ();
542		543	
543		544	else
544		545	{
545		546	char outputString[2 * GMAX_OBJECT_LENGTH];
546		547	
547		548	/* couldn't switch, create the error message */
548		549	str_sprintf (outputString,
549		550	REST_GetErrorMessage (REST_BACKUP_TIME_SWITCH_ERROR,
550		551	REST_GetTimeAsString (backupTime));
551		552	

```

553 3      /* Display the error message */
554 3      REST_DisplayErrorMessage (
555 3          (WinPtr)REST_RestoreWin,
556 3          NULL,
557 3          outputString,
558 3          eerror);
559 3      /* We're done here */
560 3      return;
561 3  }
562 1  }
563 1  /* Try to find the object in the current work item */
564 1  info = REST_FindInfoInChilden (
565 1      itemFullName, currentItemInfo, BOOL_TRUE);
566 1
567 1  /* If we found it */
568 1  if (info != NULL)
569 2  {
570 2      /* If this is a file object,
571 2      select its parent to show object in LBOX */
572 2      if ((info->type == REST_File) && (info->parent != NULL))
573 3      {
574 3          selectedObject = info->parent;
575 3      }
576 2
577 2      /* Else select this object */
578 2      else
579 3      {
580 3          selectedObject = info;
581 3      }
582 2
583 2  /* Show the object in the file manager if not already selected */
584 2  if ((OPMGR_IsObjSelected (fileMgrContext, {
585 2      GPMGR_Object)selectedObject))
586 3  {
587 3      GPMGR_FreezeDisplay (fileMgrContext);
588 3      REST_ShowObject (selectedObject);
589 3      GPMGR_Display (fileMgrContext);
590 3
591 3      /* Update the current backup options to the new selected object */
592 3      REST_UpdateBackupOptions (info);
593 3  }
594 2
595 2  /* If the object is not a parent, select it in the list box */
596 2  if (selectedObject != info)
597 3  {
598 3      GPMGR_SelectObjectInBox (fileMgrContext, {
599 3          GPMGR_Object)info, BOOL_TRUE;
600 3  }
601 2  else
602 3  {
603 3      Char      outputString[4 * GMAX_OBJECT_LENGTH];
604 3      /* Create the error string */
605 3      STR_Sprintf (outputString,
606 3          "REST_SelectString (REST_SEM_VIEW_ERROR),
607 3          itemFullName);
608 2
609 2      /* Display the error message */
610 2      GALENT_DisplayError (WinPtr)REST_RestoreWin,
611 2      REST_GetErrorString (REST_ERROR_INDEX),
612 2      GICON_GALENT(),
613 2      outputString);
614 2  }

```

```

615 //.....
616 * REST_ServletMain
617 *
618 * Description:
619 * This routine will display the object with the full name currently
620 * in the path widget in the current backup time.
621 *
622 * Parameters:
623 * None.
624 *
625 * Returns:
626 * None.
627 *
628 *.....
629 void REST_ServletMain (void)
630 {
631     tcmName; /* The full path to set the view to */
632     BoolEnum lastCharFound = BOOL_FALSE; /* Flag if we verified last char */
633     Int lastChar; /* Current position of last char */
634
635     /* Get the current path */
636     tcmName = getStr((Str)REST_GetStr(
637         tcmName, lastCharFound, BoolEnum lastCharFound = BOOL_FALSE;
638         REST_ServletMain (tcmName));
639
640     /* Strip off trailing spaces and directory markers */
641     REST_ServletMain (tcmName);
642
643     /* Set the backup view to this item at the current time */
644     REST_ServletMain (0, tcmName);
645
646     /* We're done with the name so free it */
647     tcmName = NULL;
648 }

```

```

649 //.....
650 * REST_GetChildren
651 *
652 * Description:
653 * This routine will return the children of the parent object via
654 * the addChild routine.
655 *
656 * Parameters: (1) - The parent to get the children for.
657 * parent (2) - Flag whether or not the object is selected
658 *
659 * Returns:
660 * None.
661 *
662 *.....
663 void REST_GetChildren (GMPR Context MPR,
664     GMPR Object parent,
665     BoolEnum isSelected)
666 {
667     RestoreInfoPtr info; /* The info for the given parent */
668     RestoreInfoPtr tmpObj; /* Pointer to walk the children with */
669     BoolEnum originalMI; /* Save pointer to original work item */
670     BoolEnum found = BOOL_FALSE; /* Flag whether or not we found it */
671     newMI = BOOL_FALSE; /* Flag whether or not we have a new MI */
672     count = 0; /* Number of children added */
673
674     Int
675     /* Convert to the real data type */
676     info = (RestoreInfoPtr)parent;
677
678     /* If the info is NULL or it is a file, no children to add */
679     if ((info == NULL) || (info->type != REST_File))
680         return;
681
682     /* If this object is currently selected
683        see if the work-item has changed */
684     if ((isSelected) &&
685         (REST_IsReadInProgress()) &&
686         (currentWorkItemInfo != NULL) &&
687         (info->type != REST_Client))
688     {
689         /* Keep a pointer to the original work item */
690         originalMI = currentWorkItemInfo;
691
692         /* Find work-item for parent object */
693         tmpObj = info;
694         while ((!found) && (tmpObj->type != NULL))
695         {
696             /* Is this object the work-item */
697             if (tmpObj->type == REST_WorkItem)
698             {
699                 /* If this is not the current work-item, make it so */
700                 if (currentWorkItemInfo != tmpObj)
701                 {
702                     currentWorkItemInfo = tmpObj;
703                     newMI = BOOL_TRUE;
704                     found = BOOL_TRUE;
705                 }
706             }
707         }
708     }

```

```

708 2         else
709 3         {
710 4             /* Go to the parent of this object */
711 4             tmpObject = tmpObject->parent;
712 3         }
713 2     }
714 1 }
715 1
716 1 /* If this is a different work-item, re-read the work-item data */
717 1 if ((newMI) && (allWorkChildren))
718 2 {
719 2     REST_ReadWorkItem (currentWorkItemInfo);
720 2
721 2 /* Clear the mark flags for all objects */
722 2 REST_ClearObjectMarks (originalMI);
723 1 }
724 1 else
725 2 {
726 2     /* Create the children if need be, and this is selected */
727 2     if ((info->children == NULL) && (allWorkChildren))
728 2     {
729 3         REST_CreateInfoChildren (info);
730 3     }
731 2
732 2 /* Add the children to the file manager */
733 2 tmpObject = info->children,
734 2 while (tmpObject != NULL)
735 3 {
736 3     /*
737 3     * Check if this object should be shown in the file manager
738 3     * Verify hidden file
739 3     * Verify open file
740 3     * Verify bad file
741 3     */
742 3     if ((REST_ShowHiddenFiles || (tmpObject->name[0] != '.')) &&
743 3         (REST_ShowBadFiles || !REST_IsBadObject (tmpObject)))
744 3     {
745 4         count++;
746 4         GPRM_AddChild (fileMgrContext, parent,
747 4             GPRM_Object(tmpObject));
748 4     }
749 3     tmpObject = tmpObject->next;
750 3 }
751 3
752 3 /* If this is a workitem, update the backup options */
753 3 if ((info->xtype == REST_WorkItem) &&
754 3     (isSelected) &&
755 3     (info->children != NULL))
756 3 {
757 4     /* Set the workitem options to visible */
758 4     REST_SetWorkItemOptions (WORKITEM_VISIBLE);
759 4     REST_SetSearchVisibility (BOOL_TRUE);
760 4 }
761 3
762 3 /* Update the partial backup button availability */
763 3 REST_UpdatePartialButton ();
764 3
765 3 /* Update the workitem data widgets */
766 3 REST_UpdateBackupTemplates (info);
767 3 }
768 2
769 2
770 2
771 1

```

```

775  /*.....*/
776  * RSTL_CloseChildren
777  *
778  * Description:
779  * This routine is provided for the file manager to call when an
780  * object is closed. It does nothing.
781  *
782  * Parameters:
783  *   parent      (I) - The parent to close.
784  *
785  * Returns:
786  *   None.
787  *
788  *.....*/
789  void RSTL_CloseChildren (GPRM_Context Fmgr, GPRM_Object parent)
790  {
791  /* For Speed
792  don't destroy anything until the user closes the window */
793  return;
794  }

```

```

796  /*.....*/
797  * RSTL_FindHostArray
798  *
799  * Description:
800  * This routine will determine if a given host is in an array of
801  * hosts.
802  *
803  * Parameters:
804  *   hostname     (I) - Name of the host to look for
805  *   sourcehosts  (I) - array of hosts to search
806  *
807  * Returns:
808  *   BOOL_TRUE - If the host is found in the array
809  *   BOOL_FALSE - otherwise
810  *
811  *.....*/
812  BoolNum RSTL_FindHostArray (Str hostname,
813                             Char **sourcehosts)
814  {
815  Char **nextHost; /* Next host to compare */
816  BoolNum found = BOOL_FALSE; /* Flag if we found it */
817  {
818  /* Loop through all hosts in the array until we find it */
819  while ((*nextHost != NULL) && (!found))
820  {
821  /* See if this one matches */
822  if (STR_Cmp (*nextHost, hostname) == CMP_EQUAL)
823  found = BOOL_TRUE;
824  else
825  nextHost++;
826  }
827  /* Return whether or not we found it */
828  return (found);
829  }
830
831
832

```

```

884  /*
885  * * REST_ADClientInfo
886  *
887  * Description:
888  * This routine will add a client info object to the current list.
889  *
890  * Parameters:
891  * Info (I) - the client info to add.
892  *
893  * Returns:
894  * None.
895  *
896  *
897  void REST_ADClientInfo (RestoreInfoPtr *currentList,
898  RestoreInfoPtr info)
899  {
900  RestoreInfoPtr tmpInfo;
901  /* Info to walk the current list with */
902  RestoreInfoPtr lastInfo = NULL; /* Last info we looked at */
903  Boolean found = BOOL_FALSE; /* Flag if we found the insert point */
904
905  /* If this is the first, make it the top */
906  if (*currentList == NULL)
907  {
908  *currentList = info;
909  }
910  else
911  {
912  /* Find the insert point */
913  tmpInfo = *currentList;
914  while (tmpInfo != NULL && (!found))
915  {
916  /* If this is the insert point */
917  if (REST_IsLessThan (info, tmpInfo))
918  {
919  /* Flag that we found the insert point */
920  found = BOOL_TRUE;
921  }
922  /* Insert the new client before the current pointer */
923  info->next = tmpInfo;
924  if (lastInfo != NULL)
925  lastInfo->next = info;
926  else
927  *currentList = info;
928  }
929  /* Not this one, save the pointer and go to the next */
930  lastInfo = tmpInfo;
931  tmpInfo = tmpInfo->next;
932  }
933  /* If we didn't find an insert point, tack it onto the end */
934  if (!found)
935  lastInfo->next = info;
936  }
937  }
938  }
939  }
940  }
941  }
942  }
943  }
944  }
945  }
946  }
947  }

```

```

888  /*
889  * * REST_ShowClients
890  *
891  * Description:
892  * This routine will add clients to the file manager and to the
893  * current object list. It will use any clients passed on the
894  * command line that are indeed backup clients. If no clients
895  * are passed on the command line, it will display all restorable
896  * clients. The list given will be updated to the list of valid
897  * clients being shown.
898  *
899  * This routine will then select the workfiles that are in the
900  * given work item list.
901  *
902  * NOTE:
903  * Currently only one work item may be selected at a time.
904  * This limitation causes this routine to only select the
905  * first work item in the given list.
906  *
907  * Parameters:
908  * clientList (I) - List of clients to show, updated to valid clients
909  * willist (I) - List of work items to select
910  *
911  * Returns:
912  * None.
913  *
914  *
915  void REST_ShowClients (RestoreClientPtr *clientList,
916  RestoreWorkItemPtr willist)
917  {
918  RestoreInfoPtr topInfo = NULL; /* Beginning of client list */
919  RestoreClientPtr thsClient; /* Client info in the list */
920  RestoreClientPtr nextClient; /* Next client info in the list */
921  RestoreClientPtr lastClient; /* Last client info in the list */
922  char clientName[MAX_CLIENT_NAME_LENGTH]; /* Next client to add */
923  info; /* New info object for the client */
924  tmpInfo; /* Pointer to walk the list with */
925  nextInfo; /* Pointer to next item in list */
926  lastInfo; /* Pointer to last item in list */
927  long cookie = INIT_COOKIE; /* Ah, the magic cookie */
928  short numRetries; /* Number of hosts returned */
929  char *tempHosts[HOSTS_BUFFER_LENGTH]; /* Temporary host array */
930  char *sourceHosts; /* Array of hosts */
931  short hostCount = 0; /* Count of restorable hosts */
932  int i; /* Index */
933  int error; /* Error status */
934  Boolean invalidClient = BOOL_FALSE; /* Any clients found invalid */
935  Boolean static Boolean isValidated = BOOL_FALSE; /* Have we validated the clients */
936  Boolean wifound = BOOL_FALSE; /* Flag if we found/selected a WF */
937  }

```


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1069 5 /* 1070 5 */ 1071 5 */ 1072 5 if (BOOL_TRUE) 1073 5 { 1074 5 /* Create the new client info and add it to the list */ 1075 5 info = REST_CreateClientInfo(sourcehost:index); 1076 5 REST_AddClientInfo (<topinfo, info); 1077 5 } 1078 6 /* Create the new client */ 1079 6 nextClient = (RestClientPtr) GUTTL_malloc (<sizeOf 1080 6 struct RestClient, sizeof(RestClient)); 1081 6 nextClient->next = NULL; 1082 6 1083 6 /* Update the client list */ 1084 6 if (lastClient != NULL) 1085 6 lastClient->next = nextClient; 1086 6 else 1087 6 *clientList = nextClient; 1088 6 1089 6 lastClient = nextClient; 1090 5 1091 5 else 1092 5 { 1093 5 invalidClient = BOOL_TRUE; 1094 5 } 1095 5 } 1096 3 } 1097 3 } 1098 3 /* Free up the hosts and the data */ 1099 3 for (<index0; index < hostCount; index++) 1100 3 GUTTL_Free (<sourcehosts[index]); 1101 3 GUTTL_Free (<sourcehosts); 1102 2 } 1103 2 } 1104 2 else 1105 2 { 1106 2 /* Loop through the current hosts we know they are all valid */ 1107 2 thsClient = *clientList; 1108 2 while (thsClient != NULL) 1109 2 { 1110 2 /* Create the new client info and add it to the list */ 1111 2 info = REST_CreateClientInfo(thsClient->clientName); 1112 2 REST_AddClientInfo (<topinfo, info); 1113 2 } 1114 2 } 1115 3 /* Go to the next host */ 1116 3 thsClient = thsClient->next; 1117 2 } 1118 2 } 1119 2 } 1120 1 /* If there are still no clients restorable */ 1121 1 if (<topinfo == NULL) 1122 2 { 1123 2 /* If there were only invalid clients, display the no data error */ 1124 2 if (<invalidClient) 1125 2 { 1126 2 GALENT_DisplayError ((WinPtr)REST_RestoreWin, 1127 2 REST_GetErrorString (<REST_ERROR_INDEX, 1128 2 GLENT_GetError(), 1129 2 REST_GetErrorString (< 1130 2 REST_NO_RESTORE_DATA_ERROR)); 1131 2 } 1132 2 } 1133 2 } 1134 2 } 1135 2 } 1136 2 } 1137 2 } 1138 2 } 1139 2 } 1140 1 } 1141 1 } 1142 1 } 1143 1 } 1144 1 } 1145 2 } 1146 2 } 1147 2 } 1148 1 } 1149 1 } 1150 1 } 1151 1 } 1152 2 } 1153 2 } 1154 2 } 1155 2 } 1156 2 } 1157 2 } 1158 2 } 1159 2 } 1160 2 } 1161 2 } 1162 2 } 1163 2 } 1164 3 } 1165 3 } 1166 3 } 1167 4 } 1168 4 } 1169 4 } 1170 4 } 1171 4 } 1172 4 } 1173 4 } 1174 4 } 1175 4 } 1176 4 } 1177 4 } 1178 3 } 1179 3 } 1180 1 } 1181 1 } 1182 1 } 1183 1 } 1184 2 } 1185 2 } 1186 2 } 1187 1 } 1188 1 } 1189 2 } 1190 2 } 1191 2 } 1192 2 } 1193 1 } 1194 1 } 1195 1 } 1196 1 } 1197 1 } 1198 1 } 1199 1 } 1200 1 } 1201 1 } 1202 1 } 1203 1 } 1204 1 } 1205 1 } 1206 1 } 1207 1 } 1208 1 } 1209 1 } 1210 1 } 1211 1 } 1212 1 } 1213 1 } 1214 1 } 1215 1 } 1216 1 } 1217 1 } 1218 1 } 1219 1 } 1220 1 } 1221 1 } 1222 1 } 1223 1 } 1224 1 } 1225 1 } 1226 1 } 1227 1 } 1228 1 } 1229 1 } 1230 1 } 1231 1 } 1232 1 } 1233 1 } 1234 1 } 1235 1 } 1236 1 } 1237 1 } 1238 1 } 1239 1 } 1240 1 } 1241 1 } 1242 1 } 1243 1 } 1244 1 } 1245 1 } 1246 1 } 1247 1 } 1248 1 } 1249 1 } 1250 1 } 1251 1 } 1252 1 } 1253 1 } 1254 1 } 1255 1 } 1256 1 } 1257 1 } 1258 1 } 1259 1 } 1260 1 } 1261 1 } 1262 1 } 1263 1 } 1264 1 } 1265 1 } 1266 1 } 1267 1 } 1268 1 } 1269 1 } 1270 1 } 1271 1 } 1272 1 } 1273 1 } 1274 1 } 1275 1 } 1276 1 } 1277 1 } 1278 1 } 1279 1 } 1280 1 } 1281 1 } 1282 1 } 1283 1 } 1284 1 } 1285 1 } 1286 1 } 1287 1 } 1288 1 } 1289 1 } 1290 1 } 1291 1 } 1292 1 } 1293 1 } 1294 1 } 1295 1 } 1296 1 } 1297 1 } 1298 1 } 1299 1 } 1300 1 } 1301 1 } 1302 1 } 1303 1 } 1304 1 } 1305 1 } 1306 1 } 1307 1 } 1308 1 } 1309 1 } 1310 1 } 1311 1 } 1312 1 } 1313 1 } 1314 1 } 1315 1 } 1316 1 } 1317 1 } 1318 1 } 1319 1 } 1320 1 } 1321 1 } 1322 1 } 1323 1 } 1324 1 } 1325 1 } 1326 1 } 1327 1 } 1328 1 } 1329 1 } 1330 1 } 1331 1 } 1332 1 } 1333 1 } 1334 1 } 1335 1 } 1336 1 } 1337 1 } 1338 1 } 1339 1 } 1340 1 } 1341 1 } 1342 1 } 1343 1 } 1344 1 } 1345 1 } 1346 1 } 1347 1 } 1348 1 } 1349 1 } 1350 1 } 1351 1 } 1352 1 } 1353 1 } 1354 1 } 1355 1 } 1356 1 } 1357 1 } 1358 1 } 1359 1 } 1360 1 } 1361 1 } 1362 1 } 1363 1 } 1364 1 } 1365 1 } 1366 1 } 1367 1 } 1368 1 } 1369 1 } 1370 1 } 1371 1 } 1372 1 } 1373 1 } 1374 1 } 1375 1 } 1376 1 } 1377 1 } 1378 1 } 1379 1 } 1380 1 } 1381 1 } 1382 1 } 1383 1 } 1384 1 } 1385 1 } 1386 1 } 1387 1 } 1388 1 } 1389 1 } 1390 1 } 1391 1 } 1392 1 } 1393 1 } 1394 1 } 1395 1 } 1396 1 } 1397 1 } 1398 1 } 1399 1 } 1400 1 } 1401 1 } 1402 1 } 1403 1 } 1404 1 } 1405 1 } 1406 1 } 1407 1 } 1408 1 } 1409 1 } 1410 1 } 1411 1 } 1412 1 } 1413 1 } 1414 1 } 1415 1 } 1416 1 } 1417 1 } 1418 1 } 1419 1 } 1420 1 } 1421 1 } 1422 1 } 1423 1 } 1424 1 } 1425 1 } 1426 1 } 1427 1 } 1428 1 } 1429 1 } 1430 1 } 1431 1 } 1432 1 } 1433 1 } 1434 1 } 1435 1 } 1436 1 } 1437 1 } 1438 1 } 1439 1 } 1440 1 } 1441 1 } 1442 1 } 1443 1 } 1444 1 } 1445 1 } 1446 1 } 1447 1 } 1448 1 } 1449 1 } 1450 1 } 1451 1 } 1452 1 } 1453 1 } 1454 1 } 1455 1 } 1456 1 } 1457 1 } 1458 1 } 1459 1 } 1460 1 } 1461 1 } 1462 1 } 1463 1 } 1464 1 } 1465 1 } 1466 1 } 1467 1 } 1468 1 } 1469 1 } 1470 1 } 1471 1 } 1472 1 } 1473 1 } 1474 1 } 1475 1 } 1476 1 } 1477 1 } 1478 1 } 1479 1 } 1480 1 } 1481 1 } 1482 1 } 1483 1 } 1484 1 } 1485 1 } 1486 1 } 1487 1 } 1488 1 } 1489 1 } 1490 1 } 1491 1 } 1492 1 } 1493 1 } 1494 1 } 1495 1 } 1496 1 } 1497 1 } 1498 1 } 1499 1 } 1500 1 } 1501 1 } 1502 1 } 1503 1 } 1504 1 } 1505 1 } 1506 1 } 1507 1 } 1508 1 } 1509 1 } 1510 1 } 1511 1 } 1512 1 } 1513 1 } 1514 1 } 1515 1 } 1516 1 } 1517 1 } 1518 1 } 1519 1 } 1520 1 } 1521 1 } 1522 1 } 1523 1 } 1524 1 } 1525 1 } 1526 1 } 1527 1 } 1528 1 } 1529 1 } 1530 1 } 1531 1 } 1532 1 } 1533 1 } 1534 1 } 1535 1 } 1536 1 } 1537 1 } 1538 1 } 1539 1 } 1540 1 } 1541 1 } 1542 1 } 1543 1 } 1544 1 } 1545 1 } 1546 1 } 1547 1 } 1548 1 } 1549 1 } 1550 1 } 1551 1 } 1552 1 } 1553 1 } 1554 1 } 1555 1 } 1556 1 } 1557 1 } 1558 1 } 1559 1 } 1560 1 } 1561 1 } 1562 1 } 1563 1 } 1564 1 } 1565 1 } 1566 1 } 1567 1 } 1568 1 } 1569 1 } 1570 1 } 1571 1 } 1572 1 } 1573 1 } 1574 1 } 1575 1 } 1576 1 } 1577 1 } 1578 1 } 1579 1 } 1580 1 } 1581 1 } 1582 1 } 1583 1 } 1584 1 } 1585 1 } 1586 1 } 1587 1 } 1588 1 } 1589 1 } 1590 1 } 1591 1 } 1592 1 } 1593 1 } 1594 1 } 1595 1 } 1596 1 } 1597 1 } 1598 1 } 1599 1 } 1600 1 } 1601 1 } 1602 1 } 1603 1 } 1604 1 } 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1716 1 } 1717 1 } 1718 1 } 1719 1 } 1720 1 } 1721 1 } 1722 1 } 1723 1 } 1724 1 } 1725 1 } 1726 1 } 1727 1 } 1728 1 } 1729 1 } 1730 1 } 1731 1 } 1732 1 } 1733 1 } 1734 1 } 1735 1 } 1736 1 } 1737 1 } 1738 1 } 1739 1 } 1740 1 } 1741 1 } 1742 1 } 1743 1 } 1744 1 } 1745 1 } 1746 1 } 1747 1 } 1748 1 } 1749 1 } 1750 1 } 1751 1 } 1752 1 } 1753 1 } 1754 1 } 1755 1 } 1756 1 } 1757 1 } 1758 1 } 1759 1 } 1760 1 } 1761 1 } 1762 1 } 1763 1 } 1764 1 } 1765 1 } 1766 1 } 1767 1 } 1768 1 } 1769 1 } 1770 1 } 1771 1 } 1772 1 } 1773 1 } 1774 1 } 1775 1 } 1776 1 } 1777 1 } 1778 1 } 1779 1 } 1780 1 } 1781 1 } 1782 1 } 1783 1 } 1784 1 } 1785 1 } 1786 1 } 1787 1 } 1788 1 } 1789 1 } 1790 1 } 1791 1 } 1792 1 } 1793 1 } 1794 1 } 1795 1 } 1796 1 } 1797 1 } 1798 1 } 1799 1 } 1800 1 } 1801 1 } 1802 1 } 1803 1 } 1804 1 } 1805 1 } 1806 1 } 1807 1 } 1808 1 } 1809 1 } 1810 1 } 1811 1 } 1812 1 } 1813 1 } 1814 1 } 1815 1 } 1816 1 } 1817 1 } 1818 1 } 1819 1 } 1820 1 } 1821 1 } 1822 1 } 1823 1 } 1824 1 } 1825 1 } 1826 1 } 1827 1 } 1828 1 } 1829 1 } 1830 1 } 1831 1 } 1832 1 } 1833 1 } 1834 1 } 1835 1 } 1836 1 } 1837 1 } 1838 1 } 1839 1 } 1840 1 } 1841 1 } 1842 1 } 1843 1 } 1844 1 } 1845 1 } 1846 1 } 1847 1 } 1848 1 } 1849 1 } 1850 1 } 1851 1 } 1852 1 } 1853 1 } 1854 1 } 1855 1 } 1856 1 } 1857 1 } 1858 1 } 1859 1 } 1860 1 } 1861 1 } 1862 1 } 1863 1 } 1864 1 } 1865 1 } 1866 1 } 1867 1 } 1868 1 } 1869 1 } 1870 1 } 1871 1 } 1872 1 } 1873 1 } 1874 1 } 1875 1 } 1876 1 } 1877 1 } 1878 1 } 1879 1 } 1880 1 } 1881 1 } 1882 1 } 1883 1 } 1884 1 } 1885 1 } 1886 1 } 1887 1 } 1888 1 } 1889 1 } 1890 1 } 1891 1 } 1892 1 } 1893 1 } 1894 1 } 1895 1 } 1896 1 } 1897 1 } 1898 1 } 1899 1 } 1900 1 } 1901 1 } 1902 1 } 1903 1 } 1904 1 } 1905 1 } 1906 1 } 1907 1 } 1908 1 } 1909 1 } 1910 1 } 1911 1 } 1912 1 } 1913 1 } 1914 1 } 1915 1 } 1916 1 } 1917 1 } 1918 1 } 1919 1 } 1920 1 } 1921 1 } 1922 1 } 1923 1 } 1924 1 } 1925 1 } 1926 1 } 1927 1 } 1928 1 } 1929 1 } 1930 1 } 1931 1 } 1932 1 } 1933 1 } 1934 1 } 1935 1 } 1936 1 } 1937 1 } 1938 1 } 1939 1 } 1940 1 } 1941 1 } 1942 1 } 1943 1 } 1944 1 } 1945 1 } 1946 1 } 1947 1 } 1948 1 } 1949 1 } 1950 1 } 1951 1 } 1952 1 } 1953 1 } 1954 1 } 1955 1 } 1956 1 } 1957 1 } 1958 1 } 1959 1 } 1960 1 } 1961 1 } 1962 1 } 1963 1 } 1964 1 } 1965 1 } 1966 1 } 1967 1 } 1968 1 } 1969 1 } 1970 1 } 1971 1 } 1972 1 } 1973 1 } 1974 1 } 1975 1 } 1976 1 } 1977 1 } 1978 1 } 1979 1 } 1980 1 } 1981 1 } 1982 1 } 1983 1 } 1984 1 } 1985 1 } 1986 1 } 1987 1 } 1988 1 } 1989 1 } 1990 1 } 1991 1 } 1992 1 } 1993 1 } 1994 1 } 1995 1 } 1996 1 } 1997 1 } 1998 1 } 1999 1 } 2000 1 } 2001 1 } 2002 1 } 2003 1 } 2004 1 } 2005 1 } 2006 1 } 2007 1 } 2008 1 } 2009 1 } 2010 1 } 2011 1 } 2012 1 } 2013 1 } 2014 1 } 2015 1 } 2016 1 } 2017 1 } 2018 1 } 2019 1 } 2020 1 } 2021 1 } 2022 1 } 2023 1 } 2024 1 } 2025 1 } 2026 1 } 2027 1 } 2028 1 } 2029 1 } 2030 1 } 2031 1 } 2032 1 } 2033 1 } 2034 1 } 2035 1 } 2036 1 } 2037 1 } 2038 1 } 2039 1 } 2040 1 } 2041 1 } 2042 1 } 2043 1 } 2044 1 } 2045 1 } 2046 1 } 2047 1 } 2048 1 } 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2160 1 } 2161 1 } 2162 1 } 2163 1 } 2164 1 } 2165 1 } 2166 1 } 2167 1 } 2168 1 } 2169 1 } 2170 1 } 2171 1 } 2172 1 } 2173 1 } 2174 1 } 2175 1 } 2176 1 } 2177 1 } 2178 1 } 2179 1 } 2180 1 } 2181 1 } 2182 1 } 2183 1 } 2184 1 } 2185 1 } 2186 1 } 2187 1 } 2188 1 } 2189 1 } 2190 1 } 2191 1 } 2192 1 } 2193 1 } 2194 1 } 2195 1 } 2196 1 } 2197 1 } 2198 1 } 2199 1 } 2200 1 } 2201 1 } 2202 1 } 2203 1 } 2204 1 } 2205 1 } 2206 1 } 2207 1 } 2208 1 } 2209 1 } 2210 1 } 2211 1 } 2212 1 } 2213 1 } 2214 1 } 2215 1 } 2216 1 } 2217 1 } 2218 1 } 2219 1 } 2220 1 } 2221 1 } 2222 1 } 2223 1 } 2224 1 } 2225 1 } 2226 1 } 2227 1 } 2228 1 } 2229 1 } 2230 1 } 2231 1 } 2232 1 } 2233 1 } 2234 1 } 2235 1 } 2236 1 } 2237 1 } 2238 1 } 2239 1 } 2240 1 } 2241 1 } 2242 1 } 2243 1 } 2244 1 } 2245 1 } 2246 1 } 2247 1 } 2248 1 } 2249 1 } 2250 1 } 2251 1 } 2252 1 } 2253 1 } 2254 1 } 2255 1 } 2256 1 } 2257 1 } 2258 1 } 2259 1 } 2260 1 } 2261 1 } 2262 1 } 2263 1 } 2264 1 } 2265 1 } 2266 1 } 2267 1 } 2268 1 } 2269 1 } 2270 1 }		

Page 315 of 444	REST_VerifySelection	Fri Jan 04 14:31:46 2008
1196	/*	
1197	* REST_VerifySelection	
1198	* Description:	
1199	* This routine is provided for the file manager. It determines	
1200	* if the user is OK to select the given object. We must verify with	
1201	* the user before switching MTS if anything is marked or	
1202	* if the search window is displayed (
1203	due to the restore API limitation	
1204	* of one workitem at a time).	
1205	* Parameters:	
1206	* selectobj (I) - Object to verify selection for	
1207	* ismultiselect (I) - Flag is this is a multi select	
1208	* Returns:	
1209	* BOOL_TRUE - If it is OK to select the object	
1210	* BOOL_FALSE - otherwise	
1211	*	
1212	*	
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1315 2 {
1317 2     /* For client selection, ask user before switching clients */
1318 2     if (info->type == REST_Client)
1319 2     {
1320 2         if (GALERT_DisplayQuestion ((WinPtr)REST_RestoreWin,
1321 2                                     REST_GetRestoreWin,
1322 2                                     GICON_GetWarning, REST_WARNING_INDEX),
1323 2                                     REST_GetRestoreWin()
1324 2                                     REST_SWITCH_CLIENT_WARNING),
1325 2                                     BOOL_FALSE) != GALERT_Affirmative)
1326 2         {
1327 2             returnStatus = BOOL_FALSE;
1328 2         }
1329 2     }
1330 2 }
1331 2
1332 2 /* If we are looking at a work-item already,
1333 2    see if it is the same one */
1334 2 else if (currentWorkItemInfo != NULL)
1335 2 {
1336 2     /* If this is a different work-item, ask before switching */
1337 2     if (newWorkItem != currentWorkItemInfo)
1338 2     {
1339 2         if (GALERT_DisplayQuestion ((WinPtr)REST_RestoreWin,
1340 2                                     REST_GetRestoreWin,
1341 2                                     REST_WARNING_INDEX,
1342 2                                     REST_GetWarning(),
1343 2                                     REST_SWITCH_WIS_WARNING),
1344 2                                     BOOL_FALSE) != GALERT_Affirmative)
1345 2         {
1346 2             returnStatus = BOOL_FALSE;
1347 2         }
1348 2     }
1349 2 }
1350 2
1351 2 /* Remove the search dialog if necessary */
1352 2 if (returnStatus && removeSearch)
1353 2     REST_SearchRemove (1);
1354 2
1355 2 /* Return the decremented status */
1356 2 return (returnStatus);

```

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1318 2 /* *****
1319 2  * REST_LBoxSelectObj
1320 2  * Description:
1321 2  * This routine will sensitize and desensitize the mark and unmark
1322 2  * buttons
1323 2  * Based on the file manager list box selection status.
1324 2  * Parameters:
1325 2  * None.
1326 2  * Returns:
1327 2  * None.
1328 2  * *****
1329 2  */
1330 2 void REST_LBoxSelectObj (OPNCR_Context fmg)
1331 2 {
1332 2     RestoreInfoPtr info;
1333 2     BOOLnum
1334 2         mark = BOOL_FALSE; /* Sensitivity of the mark button */
1335 2         unmark = BOOL_FALSE; /* Sensitivity of the unmark button */
1336 2         boolean,ly
1337 2         isMarkable = FALSE; /* Play if object is markable */
1338 2         int
1339 2         numWorkItems = 0; /* Number of workitems selected */
1340 2
1341 2     /* If a restore is in progress, don't update any sensitivity */
1342 2     if (REST_RestoreInProgress() || REST_SearchInProgress())
1343 2         return;
1344 2
1345 2     /* Get all items that are highlighted */
1346 2     info = (RestoreInfoPtr)OPNCR_GetListSelectedBoxObject (
1347 2         while (info != NULL)
1348 2         {
1349 2             /* If this object is marked, sensitize the unmark button */
1350 2             if (info->marked)
1351 2                 unmark = BOOL_TRUE;
1352 2         }
1353 2
1354 2     /* Else if this is a restore object, check if it is markable */
1355 2     else if (info->restoreObject != NULL)
1356 2     {
1357 2         if (info->type == REST_WorkItem)
1358 2         {
1359 2             mark = BOOL_TRUE;
1360 2             numWorkItems++;
1361 2         }
1362 2     }
1363 2     else if (GREST_IsObjSelectable (
1364 2         GREST_Handle, info->restoreObject) &&
1365 2         ((info->status != Backup_Bad) || REST_MarkAndUnMark))
1366 2     {
1367 2         /* If this object is markable, sensitize the mark button */
1368 2         mark = BOOL_TRUE;
1369 2     }
1370 2 }
1371 2
1372 2 /* get the next selected row */
1373 2 info = (RestoreInfoPtr)OPNCR_GetMaxSelectedBoxObject (
1374 2     fmg,Context);
1375 2
1376 2
1377 2
1378 2
1379 2
1380 2
1381 2
1382 2
1383 2
1384 2
1385 2
1386 2
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1414 1    }
1415 1    /* Set the sensitivity of the buttons */
1417 1    Mark = (numWorkItems <= 1);
1418 1    wst_SetsEnabled ((WPST)REST_RestoreIn->MarkButton, mark);
1419 1    wst_SetsEnabled ((WPST)REST_RestoreIn->UnmarkButton, unmark);
1420 1    }

```

```

1422 1    /*.....*/
1423 1    * REST_FilesSelectionOnly
1424 1    * Description:
1425 1    * This routine will handle the selection of an object in the file
1426 1    * manager scrolled area.
1427 1
1428 1    * Parameters:
1429 1    * selectedObject [I] - the object that was selected.
1430 1    * Returns:
1431 1    * None.
1432 1    *
1433 1    *
1434 1    *
1435 1
1436 1    void REST_FilesSelectionOnly (GPMON_Context fmg,
1437 1    Boolean indObj)
1438 1    {
1439 1    RESToreInfoPtr    info;
1440 1
1441 1    /* The real data type for the object */
1442 1    eerrorno_t        errorno;
1443 1    RestoreObjectType objectType; /* Object type of the object */
1444 1    Set
1445 1    fullPath; /* Copy of the full path of the object */
1446 1
1447 1    /* If we are sorting or re-reading, do nothing */
1448 1    if (REST_IsSortedInProgress())
1449 1    return;
1450 1
1451 1    /* Get the real info */
1452 1    info = (RestoreInfoPtr) GPMON_GetPrivate(selectedObj) {
1453 1    if (info != NULL)
1454 1    {
1455 1    /* Verify that something is selected */
1456 1
1457 1    /* Grab a copy of the full path and type incase we change
1458 1    * workItems and
1459 1    * invalidate the current objects
1460 1    */
1461 1    fullPath = eal_strdup (REST_GetFullName(info));
1462 1    objectType = info->type;
1463 1
1464 1    /* Save the name of the object */
1465 1    REST_SetSelectionString (fullPath);
1466 1    REST_LiboxSelectionOnly (fullPath);
1467 1    /* Update the backup options based on this object */
1468 1    REST_UpdateBackupOptions (info);
1469 1
1470 1    /* Update buctions based on what is selected in the Libox */
1471 1    REST_LiboxSelectionOnly (NULL);
1472 1
1473 1    /* Set the current path to the selected item */
1474 1    if ((obj)ectType == REST_Client) || (obj)ectType == REST_WorkItem)
1475 1    REST_ShowPath ("");
1476 1    else
1477 1    REST_ShowPath (fullPath);
1478 1
1479 1    GPUTL_Free (fullPath);
1480 1    }
1481 1    }

```

```

1493  /*****
1494  * REST_IsMarkable
1495  *
1496  * Description:
1497  *   This routine will determine if the given object is 'markable'.
1498  *
1499  * Parameters:
1500  *   fileObject (I) - the object to check out
1501  *
1502  * Returns:
1503  *   None.
1504  *
1505  *****/
1506
1507  static Boolean REST_IsMarkable( GPMGR_Context Mgr,
1508                                GPMGR_Object fileObject )
1509  {
1510      RestoreInfoPtr info; /* The real info for the object */
1511      Boolean retVal; /* Value to return */
1512
1513      info = (RestoreInfoPtr)fileObject;
1514
1515      /* Clients workitems and errors are not markable */
1516      if ((info->type == REST_Client) ||
1517          (info->type == REST_PairedWorkItem) ||
1518          (info->type == REST_ErrorObject))
1519      {
1520          retVal = BOOL_FALSE;
1521      }
1522      else
1523      {
1524          retVal = BOOL_TRUE;
1525      }
1526
1527      return (retVal);
1528  }
1529

```

```

1531  /*****
1532  * REST_IsMarked
1533  *
1534  * Description:
1535  *   This routine will determine if the given object is 'marked'.
1536  *
1537  * Parameters:
1538  *   fileObject (I) - the object to check out
1539  *
1540  * Returns:
1541  *   None.
1542  *
1543  *****/
1544
1545  static Boolean REST_IsMarked( GPMGR_Context Mgr,
1546                               GPMGR_Object fileObject )
1547  {
1548      RestoreInfoPtr info; /* The real info for the object */
1549
1550      info = (RestoreInfoPtr)fileObject;
1551
1552      return (info->marked);
1553  }
1554

```

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1546	/*.....	1584	/*.....
1547	* REST_HasMarkedChildren	1585	* REST_IsPartiallyMarked
1548	* Description:	1586	* Description:
1549	* This routine will determine if the given object has any marked	1587	* This routine will determine if the given object is 'marked'.
1550	* This routine returns true if the children exist,	1588	* Parameters:
1551	* it does not retrieve new	1589	* FileInfo (I) - the object to check out
1552	* children.	1590	* Returns:
1553	* Parameters:	1591	* None.
1554	* parent (I) - the parent to check	1592	* Returns:
1555	* Returns:	1593	* None.
1556	* None.	1594	*****
1557	*****	1595	*****
1558	*****	1596	*****
1559	*****	1597	*****
1560	*****	1598	*****
1561	*****	1599	*****
1562	Static Boolean REST_HasMarkedChildren (RestoreInfoPtr parent)	1600	Static Boolean REST_IsPartiallyMarked (GPRC Context Fmgr,
1563	{	1601	OPRC Object FileInfo)
1564	Boolean	1602	{
1565	retval = BOOL_FALSE;	1603	Boolean retval = BOOL_FALSE;
1566	RestoreInfoPtr nextChild;	1604	RestoreInfoPtr nextInfo;
1567	nextChild = parent->children;	1605	RestoreInfoPtr childInfo;
1568	while ((retval && (nextChild != NULL))	1606	fullName;
1569	{	1607	/* Cast back to the real object */
1570	if (nextChild->marked)	1608	info = (RestoreInfoPtr)FileInfo;
1571	{	1609	if (info->restoreObject != NULL)
1572	retval = BOOL_TRUE;	1610	{
1573	}	1611	/* Determine if any existing children are marked */
1574	else	1612	{
1575	retval = REST_HasMarkedChildren (nextChild);	1613	retval = BOOL_TRUE;
1576	nextChild = nextChild->next;	1614	}
1577	}	1615	/* If there are no marks, then nothing is partially marked */
1578	}	1616	LBOX_GoHome (REST_RestoreWin->SelectedListBox);
1579	}	1617	nextInfo = LBOX_CurrentClientData;
1580	return (retval);	1618	REST_RestoreWin->SelectedListBox;
1581	}	1619	while ((retval && (nextInfo != NULL))
1582	}	1620	{
		1621	fullName = sgl_strdup (REST_GetFullName(nextInfo));
		1622	childInfo = REST_FindInfoInChildren (fullName, info, BOOL_FALSE);
		1623	if ((childInfo != NULL) && (childInfo->marked))
		1624	{
		1625	retval = BOOL_TRUE;
		1626	}
		1627	else
		1628	{
		1629	LBOX_GoDown (REST_RestoreWin->SelectedListBox);
		1630	nextInfo = LBOX_CurrentClientData;
		1631	REST_RestoreWin->SelectedListBox;
		1632	}
		1633	}
		1634	GUTL_Free (fullName);
		1635	}
		1636	}
		1637	return (retval);
		1638	}
		1639	}

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1584	/*.....	1672	/*.....
1585	* REST_IsPartiallyMarked	1673	* Description:
1586	* Description:	1674	* This routine will determine if the given object is 'marked'.
1587	* This routine will determine if the given object is 'marked'.	1675	* Parameters:
1588	* Parameters:	1676	* FileInfo (I) - the object to check out
1589	* FileInfo (I) - the object to check out	1677	* Returns:
1590	* Returns:	1678	* None.
1591	* None.	1679	*****
1592	* Returns:	1680	*****
1593	* None.	1681	*****
1594	*****	1682	*****
1595	*****	1683	*****
1596	*****	1684	*****
1597	*****	1685	*****
1598	*****	1686	*****
1599	*****	1687	*****
1600	*****	1688	*****
1601	*****	1689	*****
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1605	*****	1693	*****
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1607	*****	1695	*****
1608	*****	1696	*****
1609	*****	1697	*****
1610	*****	1698	*****
1611	*****	1699	*****
1612	*****	1700	*****
1613	*****	1701	*****
1614	*****	1702	*****
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1642	*****	1730	*****
1643	*****	1731	*****
1644	*****	1732	*****
1645	*****	1733	*****
1646	*****	1734	*****
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1648	*****	1736	*****
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1665	*****	1753	*****
1666	*****	1754	*****
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1669	*****	1757	*****
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1679	*****	1767	*****
1680	*****	1768	*****
1681	*****	1769	*****
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1684	*****	1772	*****
1685	*****	1773	*****
1686	*****	1774	*****
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1842	*****	1930	*****
1843	*****	1931	*****
1844	*****	1932	*****
1845	*****	1933	*****
1846	*****	1934	*****
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1848	*****	1936	*****
1849	*****	1937	*****
1850	*****	1938	*****
1851	*****	1939	*****
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1856	*****	1944	*****
1857	*****	1945	*****
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1859	*****	1947	*****
1860	*****	1948	*****
1861	*****	1949	*****
1862	*****	1950	*****
1863	*****	1951	*****
1864	*****	1952	*****
1865	*****	1953	*****
1866	*****	1954	*****
1867	*****	1955	*****
1868	*****	1956	*****
1869	*****	1957	*****
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1871	*****	1959	*****
1872	*****	1960	*****
1873	*****	1961	*****
1874	*****	1962	*****
1875	*****	1963	*****
18			

```

1641 .....
1642 * REST_ToggleMarking
1643 *
1644 * Description:
1645 * This routine will toggle the mark status of the given object.
1646 *
1647 * Parameters:
1648 *   fileObject (I) - The file manager object to toggle
1649 *   fileObject (I) - The file manager object to toggle
1650 * Returns:
1651 *   None.
1652 *
1653 .....
1654 void REST_ToggleMarking ( GPMGR_Context Inpt,
1655                           GPMGR_Object fileObject )
1656 {
1657     RestoreInOptPtr info;
1658     /* The real info for the object */
1659     long numberBad = 0; /* Number of bad files marked */
1660     long numberMarked = 0; /* Number of objects marked */
1661     RestoreInOptPtr tmpObject;
1662     /* Pointer to walk the list with */
1663     RestoreInOptPtr newWorkItem = NULL; /* Work item for the selected object */
1664     RestoreInOptPtr tmpInfo; /* The parent object in the SArea */
1665     /* If a restore is in progress, no marking is allowed! */
1666     if (REST_RestoreInProgress() || REST_SwitchInProgress())
1667         return;
1668     /* Get back to the real object */
1669     info = (RestoreInOptPtr)fileObject;
1670     if ((info != NULL) &&
1671         (currentWorkItemInfo != NULL) || {
1672             info->type == REST_WorkItem))
1673     {
1674         /* Find the work-item object for this object */
1675         tmpObject = info;
1676         while ((newWorkItem == NULL) && (tmpObject != NULL))
1677         {
1678             /* If this is the work-item object we're done */
1679             if (tmpObject->type == REST_WorkItem)
1680             {
1681                 newWorkItem = tmpObject;
1682             }
1683             /* Else try its parent */
1684             else
1685             {
1686                 tmpObject = tmpObject->parent;
1687             }
1688         }
1689     }
1690     /* If this is a different workitem */
1691     if (newWorkItem != currentWorkItemInfo)
1692     {
1693         /* If the client is selected, then we might be able to mark */
1694         tmpInfo = (RestoreInOptPtr) GPMGR_GetFirstSelectedObject (
1695             (info->type == REST_WorkItem) &&
1696             (REST_VerifySelection (fileObjectContext,

```

```

1693     newWorkItem,
1694     BOOL_FALSE,
1695     BOOL_FALSE))
1696     {
1697         /* Select the work item,
1698            * which isn't really the desired result,
1699            * but we have to have the
1700            * workitem in the SArea in order to continue
1701            */
1702         GPMGR_SelectObject (fileMgrContext, {
1703             GPMGR_Object)info, BOOL_TRUE;
1704         else
1705         {
1706             return;
1707         }
1708     }
1709     /* This may take a while so display a wait cursor */
1710     WGT_SetWaitCursor (WgtPtr REST_RestoreWin);
1711     /* Continue with the operation if:
1712     * The object is marked (anything can be unmarked)
1713     * The object is a higher level object (like a workitem)
1714     * The object is a workable for the given time and passes the bad
1715     * file test
1716     */
1717     if ((info->marked) ||
1718         ((info->type != REST_File) && {
1719             (GPMGR_IsObjectMarkable (GPMGR_Handle, info->restoreObj) &&
1720             ((info->status != BackupBad) || REST_MarkBadFlag)))
1721     {
1722         if ((info->marked && REST_UnmarkInfo {
1723             info, numberMarked, numberBad) ||
1724             (info->marked && REST_MarkInfo
1725             info, numberMarked, numberBad)))
1726         {
1727             REST_UpdateMarkedDataForList (numberMarked, numberBad);
1728             SAREA_RedrawPart (SAREPtr REST_RestoreWin->SelectedListBox);
1729             REST_UpdateRemovalButtons ();
1730         }
1731     }
1732     /* Display the normal cursor again */
1733     WGT_SetCursor (WgtPtr REST_RestoreWin, CURS_Arrow());
1734 }

```



```

1746  /*****
1747  * REST_FinalInitialize
1748  *****/
1749  * Description:
1750  * This routine will initialize the routines in the file manager
1751  * of the restore functionality.
1752  *
1753  * Parameters:
1754  * None.
1755  * Returns:
1756  * None.
1757  *
1758  *****/
1759
1760 void REST_FinalInitialize (void)
1761 {
1762  /* Create the file manager context for restore */
1763  FileManagerContext = GFMCX_Create
1764  (REST_RestoreWin->BackupArea,
1765   REST_RestoreWin->BackupListBox,
1766   REST_RestoreWin->IboxVsb,
1767   (TREDUP)REST_RestoreWin->JunkTfd,
1768   NUMBER_ROWS_COLUMNS,
1769   NUMBER_ROWS_COLUMNS,
1770   REST_GetChildren,
1771   REST_GetChildren,
1772   REST_GetChildren,
1773   REST_GetIcon,
1774   REST_GetIcon,
1775   REST_GetOverlayIcon,
1776   REST_GetOverlayIcon2,
1777   REST_GetOverlayIcon2,
1778   REST_GetOverlayIcon2,
1779   REST_GetOverlayIcon2,
1780   REST_GetOverlayIcon2,
1781   REST_GetOverlayIcon2,
1782   REST_VerifySelection,
1783   REST_FileSelectionOnly,
1784   REST_FileSelectionOnly,
1785   REST_FileSelectionOnly,
1786   REST_FileSelectionOnly,
1787   REST_FileSelectionOnly,
1788   REST_FileSelectionOnly,
1789   REST_FileSelectionOnly,
1790   REST_FileSelectionOnly);

```


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130 2	GUTIL_WGT_SelEnabled ((
131 2	WgtPtr)REST_RestoreWin->UnmarkButton, BOOL_FALSE);	
132 2	GUTIL_WGT_SelEnabled ((
133 2	WgtPtr)REST_RestoreWin->SearchButton, BOOL_FALSE);	
134 2	/* Restore unmarking from the mark summary */	
135 2	GUTIL_WGT_SelEnabled ((
136 2	WgtPtr)REST_RestoreWin->RemoveButton, BOOL_FALSE);	
137 2	GUTIL_WGT_SelEnabled ((
138 2	WgtPtr)REST_RestoreWin->ClearButton, BOOL_FALSE);	
139 2	GUTIL_WGT_SelEnabled ((
140 2	WgtPtr)REST_RestoreWin->StartButton, BOOL_FALSE);	
141 2	GUTIL_WGT_SelEnabled ((
142 2	WgtPtr)REST_RestoreWin->CloseButton, BOOL_FALSE);	
143 2	/* Don't let the user change the path */	
144 2	GUTIL_WGT_SelEnabled ((
145 2	WgtPtr)REST_RestoreWin->PathBtn, BOOL_FALSE);	
146 2	/* Don't let the user do anything in the search window */	
147 2	if (REST_SearchWindowIsDisplayed ())	
148 3	{	
149 3	GUTIL_WGT_SelEnabled((
150 3	WgtPtr)REST_SearchWindow->MarkButton, BOOL_FALSE);	
151 3	GUTIL_WGT_SelEnabled((
152 3	WgtPtr)REST_SearchWindow->UnmarkButton, BOOL_FALSE);	
153 2	}	
154 1	}	
155 1	/* Else, set the states back to what they should be */	
156 1	else	
157 1	{	
158 2	/* If we are doing FS restore,	
159 2	re-enable FS panel and search button */	
160 2	if (currentWorkItemInfo != NULL)	
161 3	{	
162 3	GUTIL_WGT_SelEnabled ((
163 3	WgtPtr)REST_RestoreWin->FSOptionsPanel, BOOL_TRUE);	
164 3	GUTIL_WGT_SelEnabled ((
165 3	WgtPtr)REST_RestoreWin->SearchButton, BOOL_TRUE);	
166 3	/*	
167 3	Sanitize the date buttons appropriately	
168 3	temporarily make sure the extend flag is set so no error is	
169 3	displayed	
170 3	*/	
171 3	origStatus = REST_IsAReadinProgress ();	
172 3	REST_SetReadinProgress (BOOL_TRUE);	
173 3	REST_UpdateButtons ();	
174 3	REST_SetReadinProgress (origStatus);	
175 2	}	
176 2	/* Reset the enabling of the mark an unmark buttons */	
177 2	REST_LBoxSelectionOnly (NULL);	
178 2	/* Reset unmarking from the mark summary */	
179 2	REST_UpdateButtons ();	
180 2		

Page 332 of 444	REST_SelfRestoreVisibility	Fri Jan 04 14:31:46 2008
182 2	/* Reset the start button */	
183 2	GUTIL_WGT_SelEnabled ((
184 2	WgtPtr)REST_RestoreWin->StartButton, BOOL_TRUE);	
185 2	GUTIL_WGT_SelEnabled ((
186 2	WgtPtr)REST_RestoreWin->CloseButton, BOOL_TRUE);	
187 2	/* Reset the Path Tree */	
188 2	GUTIL_WGT_SelEnabled ((WgtPtr)REST_RestoreWin->PathBtn, BOOL_TRUE);	
189 2	/* Reset the search window buttons */	
190 2	if (REST_SearchWindowIsDisplayed ())	
191 2	{	
192 2	REST_SearchWindowUpdateButtons ();	
193 3	}	
194 3	}	
195 2		
196 1		
197 1		


```

431 3         DRAW_ClipperRect (DRAWAREA,
433 3         DRAW_JUSTIFY | DRAW_JUSTIFYCENTER,
434 3         drawstring)
435 2     )
436 2
437 2     /* End clipping */
438 2     DRAW_ClipperRect (DRAWAREA);
439 2
440 1 }
441 1 }
442 1

```

```

444 1 /*.....*/
445 1 * Function Name:  REST_GetDataSizing()
446 1
447 1 * Description:
448 1 * This function will set the give string to represent the value
449 1 * of the number of bytes given in sizeInKB.
450 1
451 1 * If the value is less than 1000, it will display in KB
452 1 * If the value is greater than 1000, it will display in MB
453 1 * If the value is greater than 1000000, it will display in GB
454 1
455 1 * Parameters:
456 1 * (I) dataSize - Size of the data in KB
457 1 * (O) sizingString - PREALLOCATED string to put size value into
458 1 * None.
459 1
460 1 * Success Outputs and Side Effects:
461 1
462 1
463 1
464 1 void REST_GetDataSizing (ulong sizeInKB,
465 1     sizingString)
466 1 {
467 1     if (sizeInKB < KBYTES)
468 2     { /* Display K Bytes */
469 2         STR_Sprintf (sizingString, "%lu KB", sizeInKB);
470 2     }
471 2     else if (sizeInKB < MBYTES)
472 2     { /* Display M Bytes with 2 decimal places */
473 2         STR_Sprintf (sizingString, "%.2f MB",
474 2             (float)sizeInKB / (float)KBYTES);
475 2     }
476 2     else
477 2     { /* Display G Bytes with 2 decimal places */
478 2         STR_Sprintf (sizingString, "%.2f GB",
479 2             (float)sizeInKB / (float)MBYTES);
480 2     }
481 2 }
482 1
483 1
484 1
485 1

```



```

625 1 REST_ProgressUpdatePercentComplete ((
626 1 )
        WinPtr/REST_ProgressWindow->ProgressArea);

```

```

628 1 /*
629 1  * REST_ProgressDisplay
630 1  * Description:
631 1  * This routine will display the Progress window.
632 1  * Parameters:
633 1  * None
634 1  * Returns:
635 1  * None
636 1  * None
637 1  * None
638 1  * None
639 1  * None
640 1  */
641 1 void REST_ProgressDisplay ( void )
642 1 {
643 1     if (REST_ProgressDisplayed)
644 1     {
645 1         REST_ProgressRemove ();
646 1     }
647 1
648 1     /* Load up the window's resources */
649 1     REST_ProgressWindow = REST_ProgressWindowInit ((
650 1         WinPtr/REST_ProgressWin);
651 1
652 1     /* Play the progress window as displayed */
653 1     REST_ProgressDisplayed = BOOL_TRUE;
654 1
655 1     /* Add the host to the window title */
656 1     GUIUtil_AddHostToWindowTitle ((WinPtr/REST_ProgressWindow);
657 1
658 1     TED_SetStr ((TEDPtr/REST_ProgressWindow->MINMETEd,
659 1         currentWorkItemInfo->name);
660 1
661 1     WGT_SetClientArea ((WinPtr/REST_ProgressWindow->ProgressArea, {
662 1         ClientPtr-1});
663 1
664 1     waitIcon[0] = (IconPtr) RES_Load ("Icons", "waitIcon");
665 1     waitIcon[1] = (IconPtr) RES_Load ("Icons", "waitIcon");
666 1     waitIcon[2] = (IconPtr) RES_Load ("Icons", "waitIcon");
667 1     waitIcon[3] = (IconPtr) RES_Load ("Icons", "waitIcon");
668 1     waitIcon[4] = (IconPtr) RES_Load ("Icons", "waitIcon");
669 1     IconCount = 0;
670 1
671 1     /* Put up the window */
672 1     WTK_Show ((WinPtr/REST_ProgressWindow);
673 1 }

```



```

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615  /
616  * REST_ProgressDisplayError
617  /
618  * Description:
619  * This routine will display an error in the Progress window.
620  *
621  * Parameters:
622  *   status          - The error number
623  *   feedbackObj     - The feedback object for more info
624  *
625  * Returns:
626  *   None.
627  *
628  *****/
629
630 static void REST_ProgressDisplayError (seemo_vt feedbackObjPtr status,
631 feedbackObj)
632 {
633     Char          drawString[256];
634     RectIRec      winRect;
635     RectIRec      textRect;
636     RectIRec      feedbackRect;
637     WindowPtr     winPtr;
638     ERMProgressPr feedbackObj;
639
640     if (REST_ProgressDisplayError)
641     {
642         if (status != E_SUCCESS)
643         {
644             if ((feedbackObj != NULL) &&
645                 ((feedbackObj == ERMNSToolFeedbackObj) || (feedbackObj ==
646                     NULL)))
647             {
648                 TED_SetStr ((TMdPtr)REST_ProgressWindow->StatusF,
649                     "Unknown",
650                     e_get_error_text(status));
651             }
652             else
653             {
654                 TED_SetStr ((TMdPtr)REST_ProgressWindow->StatusF,
655                     e_get_error_text(status));
656             }
657         }
658         if (status == E_SUCCESS)
659         {
660             WIN_SetLabel ((WinPtr)REST_ProgressWindow,
661                 "REST_Progress SUCCESS INDEX");
662             STR_Obj (drawString, REST_GetErrorString (REST_Reason_SUCCESS));
663         }
664         else
665         {
666             WIN_SetLabel ((WinPtr)REST_ProgressWindow,
667                 "REST_GetErrorString (REST_Reason_FAILURE)");
668             STR_Obj (drawString, e_get_error_text(status));
669         }
670         GUTL_AddressToWindowTile ((WinPtr)REST_ProgressWindow);
671
672         /* Set the error as the client data */
673         WGN_SetClientData ((WinPtr)REST_ProgressWindow->ProgressArea,
674             (ClientPtr)status);
675
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```

Page 344 of 444	REST_ProgressDisplayError	Fri Jan 04 14:31:46 2008
738 2	NOT_Final (Integer) REST_ProgressWindow->ProgressArea, BOOL_FALSE);	
740 2	GPILL_MOT_GetEnabled ({	
741 2	Integer REST_ProgressWindow->CancelInput, BOOL_TRUE);	
742 1	TButton_SetLabel (TButton REST_ProgressWindow->CancelInput, "OK");	
743 1	}	
744 2	else	
745 2	{	
746 1	if (status == E_SUCCESS)	
747 1	{	
748 1	/* Tell the user that the restore completed successfully */	
749 1	GALLERY_DisplayError (Integer) REST_RestoreWin,	
750 1	REST_GetProstisting (REST_SUCCESS_INDEX),	
751 1	GICON_GetIcon (I_SUCCESS),	
752 2	REST_GetErrorString (REST_RESTORE_SUCCESS));	
753 2	}	
754 2	else	
755 1	{	
756 1	/* Display the error */	
757 1	GALLERY_DisplayError (Integer) REST_RestoreWin,	
758 1	REST_GetProstisting (REST_SUCCESS_INDEX),	
759 1	REST_GetErrorString (REST_RESTORE_FAILURE),	
760 1	e_get_error_text(status));	
761 2	}	
762 2	}	
763 1	}	
764	}	

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```

746 //.....
747 * Function Name: REST_ProgressRemove ()
748 *
749 * Description:
750 * This routine will remove the progress window.
751 *
752 * Parameters:
753 * None.
754 *
755 * Success Outputs and Side Effects:
756 * None.
757 *
758 * Returns:
759 * None.
760 *
761 .....
762 void REST_ProgressRemove (void)
763 {
764     /* We only care if the window is displayed */
765     if (REST_ProgressDisplayed)
766     {
767         /* Reset the flags */
768         REST_ProgressDisplayed = BOOL_FALSE;
769         restoreInProgress = BOOL_FALSE;
770     }
771     /* Remove the window */
772     WITH_DIALOG (WinPtr)REST_ProgressWindow;
773     REST_ProgressWindow = NULL;
774 }
775
776
777

```

```

798 //.....
799 * REST_ProgressCancel
800 *
801 * Description:
802 * This routine will signal the progress dialog that the cancel
803 * button was hit.
804 *
805 * Parameters:
806 * None.
807 *
808 * Returns:
809 * None.
810 *
811 .....
812 void REST_ProgressCancel (BoolInput userRequest)
813 {
814     if (restoreInProgress)
815     {
816         if (userRequest ||
817             (GALERT_DisplayQuestion (WinPtr)REST_RestoreWin,
818                                     REST_GetQueryString(
819                                         REST_VERIFY_CANCEL_TITLE,
820                                         GALERT_QUESTION1,
821                                         REST_GetQueryString(
822                                             REST_VERIFY_CANCEL_MESSAGE,
823                                             BOOL_FALSE) == GALERT_Affirmative))
824         {
825             /* the user canceled, display a cancel in progress dialog */
826             /*
827             *
828             *
829             *
830             *
831             *
832             *
833             *
834             *
835             *
836             *
837             *
838             *
839             *
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982             *
983             *
984             *
985             *
986             *
987             *
988             *
989             *
990             *
991             *
992             *
993             *
994             *
995             *
996             *
997             *
998             *
999             *
1000            */
1001             TED_SetStr ((TDEPtr)REST_ProgressWindow->Status,
1002                         WGT_Inval, (REST_GetQueryString (REST_CANCEL_PROGRESS));
1003             WGT_Inval ( (REST_GetQueryString (REST_CANCEL_PROGRESS));
1004             WGT_Ptr(REST_ProgressWindow->ProgressArea, BOOL_FALSE);
1005             GUTL_WGT_SetEnabled(
1006                 WGT_Ptr(REST_ProgressWindow->CancelTB, BOOL_FALSE);
1007             }
1008             else
1009             {
1010                 REST_ProgressRemove ();
1011             }
1012         }
1013     }
1014 }
1015
1016
1017

```

```

867 /*****
868 * REST_DisplayDone
869 *
870 * Description:
871 * This routine is the routine which will display the done
872 * status with status for a file system restore.
873 *
874 * Parameters:
875 * status (I) - The restore status.
876 * feedbackObject (I) - The restore feedback object
877 *
878 * Returns:
879 * None.
880 *
881 *****/
882 void REST_DisplayDone (errno_t status,
883 feedbackObjectPtr feedbackObject)
884 {
885     EDMPProgressPtr edmpObject;
886     WINFOrestObjPtr winfoObject;
887     Char outString[MEDIUM_STRING_LENGTH];
888     time_t now;
889
890     /* Reset the restore flags */
891     restoreInProgress = BOOL_FALSE;
892     restoreCompleted = BOOL_FALSE;
893
894     /* Update the end time to the current time */
895     now = time(&time_t *);
896     outString = MEDIUM_STRING_LENGTH,
897     "H:MM",
898     localtime (&now));
899     TED_SetStr ((TEDIT)REST_ProgressWindow->EndTimeStr, outString);
900
901     /* If the status is successful, check for underlying errors */
902     if (status == E_SUCCESS)
903     {
904         edmpObject = EDMPST_GetFirstEDMPObject (
905             EDMPST_GetObjectEDMPFailed (GREST_Handle, feedbackObject);
906         if (EDMPST_GetObjectEDMPFailed (GREST_Handle, edmpObject) > 0)
907         {
908             winfoObject = EDMPST_GetFirstObjPtr (GREST_Handle, feedbackObject);
909             while ((status == E_SUCCESS) && (winfoObject != NULL))
910             {
911                 status = EDMPST_GetObjectItemStatus (GREST_Handle, winfoObject);
912                 winfoObject = EDMPST_GetNextObject (GREST_Handle, winfoObject);
913             }
914         }
915     }
916
917     /* Display the return status */
918     REST_ProgressDisplayError (status, feedbackObject);
919
920     REST_SetRestoreAvailability (BOOL_TRUE);
921 }

```

```

905 /*****
906 * REST_RestoreInProgress
907 *
908 * Description:
909 * This routine returns whether or not a restore is currently in
910 * progress.
911 *
912 * Parameters:
913 * None.
914 *
915 * Returns:
916 * BOOL_TRUE - If a restore has been started (
917 * and is not yet finished)
918 *
919 * BOOL_FALSE - Otherwise.
920 *
921 *****/
922 BoolEnum REST_RestoreInProgress (void)
923 {
924     return (restoreInProgress);
925 }

```



```

1164 6         numAnswers++;
1165 5     }
1167 5     /* If no selections, send NULL as the answer */
1168 6     if (numAnswers == 0)
1170 6     {
1171 6         numAnswers = 1;
1172 6         userAnswers = GURL.CallLoc (sizeof(Str));
1173 6         userAnswers[0] = NULL;
1174 6     }
1175 6     else
1176 6     {
1177 6         userAnswers = GURL.CallLoc (sizeof(selections * sizeof(Str));
1178 7         for (i=0; i < numChoices; i++)
1179 7         {
1180 8             if (panelFields[i].details.toggle.isSelected)
1181 8             {
1182 8                 userAnswers[selNumber] = sel_strdup (
1183 7                     panelFields[i].fieldName);
1184 6                 selNumber++;
1185 5             }
1186 5             break;
1187 5         }
1188 5     }
1189 5     case QTYPE_STR:
1190 5         numAnswers = 1;
1191 5         userAnswers = GURL.CallLoc (sizeof(Str));
1192 5         if (panelFields[0].details.ted.value != NULL)
1193 5             userAnswers[0] = sel_strdup (
1194 5                 panelFields[0].details.ted.value);
1195 5         else
1196 5             userAnswers[0] = NULL;
1197 5         break;
1198 5     case QTYPE_INT:
1199 5         numAnswers = 1;
1200 5         userAnswers = GURL.CallLoc (sizeof(Str));
1201 5         sprintf (
1202 5             tempString, "%d", panelFields[0].details.spin.value);
1203 5         userAnswers[0] = sel_strdup (tempString);
1204 5         break;
1205 5     default:
1206 5         break;
1207 5     }
1208 4     /* Now, clean up the memory for the generic panel */
1209 4     GRANEL.DestroyHandle (panelHandle, BOOL_TRUE);
1210 3 }
1211 3     /* Now give the restore API the answer(s) */
1212 3     for (i=0; i < numAnswers; i++)
1213 3     {
1214 4         EKMRST_SetUserAnswer (GRNST_Handle,
1215 4             queryObject,
1216 4             userAnswers[i],
1217 4             i < (numAnswers - 1));
1218 4     }
1219 4     /* Done with the string for this answer, so free the memory */
1220 4     GURL.Free (userAnswers[i]);
1221 4 }
1222 3 }
1223 2 }
1224 3 /* Free the memory for the answer array */
1225 3 GURL.Free (userAnswers);
1226 2 }

```

```

1228 2         EKMRST_FreeQueryObject (GRNST_Handle, queryObject);
1229 2     /* Flag that the question dialog is no longer displayed */
1230 2     questionDisplayed = BOOL_FALSE;
1231 2 }
1232 1 }
1233 1 }

```



```

1432 4 {
1433 4     /* Call the check for cancel routine to display the progress */
1434 4     REST_CheckForCancel (ClientPtr)checkForCancelId);
1435 4     dialog */
1436 4 }
1437 4 }
1438 4 }

```

```

1440 .....
1441 .....
1442 .....
1443 .....
1444 .....
1445 .....
1446 .....
1447 .....
1448 .....
1449 .....
1450 .....
1451 .....
1452 .....
1453 .....
1454 void REST_StartProgress ( void )
1455 {
1456     REST_SetRestoreVisibility (BOOL_FALSE);
1457     REST_FixDateTime = 0;
1458     REST_ProgressDisplay ();
1459     restoreInProgress = BOOL_TRUE;
1460     /* Add a timeout to get the submit results */
1461     EVENT_StartBackItem (REST_GetSubmitResults,
1462         (ClientPtr)0,
1463         RESTORE_CHECK_SUBMIT_DELAY);
1464 }

```


[illegible]

```

131 1      ReactProgressWinPcr win;
132 1
133 1      win = (ReactProgressWinPcr)WIN_LoadSized(
134 1          sizeof(ReactProgressWinPcr));
135 1      ReactProgressWin_Construct(win);
136 1
137 1      /* Set this module to be non-visible when closed */
138 1      if (parent != NULL)
139 2      {
140 2          WIN_SetParentWin ((WinPcr)win, parent);
141 2          WIN_SetOnPlace ((WinPcr)win, WIN_OP_MOVEPARENT);
142 2          WIN_SetOnFlags ((WinPcr)win, WIN_OP_MOVEPARENT);
143 1      }
144 1
145 1      WIN_Init((WinPcr)win);
146 1
147 1      return (win);
148 1
149 1
150 1      /* )) CodeGen: WindowSection Win
151 1      /* (( CodeGen: WindowImplementaionPlaceholder ))
152 1
153 1      /* (( CodeGen: MainPlaceholder ))
154 1
155 1      */

```

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128	* Function Name: REST_AddFoundItem ()		174	/*.....	
129	* Description:		175	* REST_CheckForCancel	
130	* This routine will add a found object to the search results		176	* Description:	
131	* List box (at the end of the list box).		177	* This routine will determine if the user has cancelled the search	
132			178	* will update the progress window.	
133	* Parameters:		179		
134	* object (1) - The object to add		180	* Parameters:	
135	* backupTime (1) - The backup time for the object		181	* None	
136	* Success Outputs and Side Effects:		182	* Returns:	
137	* None.		183	* BOOL_TRUE - If the user has cancelled	
138	* Returns:		184	* BOOL_FALSE - otherwise	
139	* None.		185	*****	
140	* None.		186		
141	*****		187		
142			188		
143			189	static Boolean REST_CheckForCancel (void)	
144			190	{	
145	static void REST_AddFoundItem (GRTT_Object object,		191	static long lastNumFound = -1; /* Number of items found previously */	
146	time_t backupTime)		192	{	
147	{		193	Char	
148	REST_FoundObjectPtr foundObject; /* New found object record */		194	Boolean	
149	149 1		195	retval;	
150	150 1		196	/* Make sure the cancel dialog is still displayed */	
151	151 1		197	if (syncSearchHandle != NULL)	
152	152 1		198	{	
153	/* Put this on the end of the list of found objects */		199	/* If the number of entries found has changed, update the string */	
154	154 1		200	if (REST_CurrentEntries != lastNumFound)	
155	155 1		201	{	
156	156 1		202	/* Build the new string */	
157	157 1		203	if (REST_CurrentEntries != 0)	
158	158 1		204	{	
159	159 1		205	STR_Sprintf (outputString, (REST_SEARCH_STATUS),	
160	160 1		206	REST_CurrentEntries,	
161	161 1		207	REST_CurrentEntries,	
162	162 1		208	208 3	
163	163 1		209	else	
164	164 1		210	{	
165	165 1		211	STR_Copy (outputString, REST_GetErrorString (
166	166 1		212	REST_SEARCH_IN_PROGRESS));	
167	167 2		213	/* Update the progress dialog */	
168	168 2		214	GALERT_UpdateMessage (syncSearchHandle, outputString);	
169	169 2		215	/* Save the current number of entries */	
170	170 2		216	lastNumFound = REST_CurrentEntries;	
171	171 1		217	/* Return whether or not the user cancelled */	
172	172 1		218	retval = GALERT_IsCancelled(syncSearchHandle);	
			219	else	
			220	{	
			221	retval = BOOL_TRUE;	
			222	return (retval);	
			223	223 1	
			224	224 1	
			225	225 1	
			226	226 1	
			227	227 1	
			228	228 1	
			229	229 1	
			230	230	

```

232 1  /* .....
233 1  * REST_SearchStartTimeout
234 1  *
235 1  * Description:
236 1  * This routine will start the search.
237 1  * It is used to delay a bit to make
238 1  * sure the in progress dialog is visible.
239 1  * Parameters:
240 1  * clientData (I) - Unused.
241 1  * Returns:
242 1  * None.
243 1  *
244 1  * .....
245 1  */
246 1  static void REST_SearchStartTimeout (ClientPtr clientData)
247 1  {
248 1  }
249 1  REST_SearchStartSearch ();
250 1  }
251 1  }

```

```

252 1  /* .....
253 1  * REST_SearchCancel
254 1  *
255 1  * Description:
256 1  * This routine will remove the search in progress dialog and clear
257 1  * the current sync window handle.
258 1  * Parameters:
259 1  * clientData (I) - Unused.
260 1  * Returns:
261 1  * None.
262 1  *
263 1  * .....
264 1  */
265 1  void REST_SearchCancel (void)
266 1  {
267 1  long numErrors; /* Number found */
268 1  GRST_Object foundObjects[1]; /* Temp array of found objects */
269 1  time_t time_t; /* Backup time for object */
270 1  errno_t errno; /* Error code returned */
271 1  }
272 1  }
273 1  }
274 1  /* If there really is a search in progress, remove the dialog */
275 1  {
276 1  if (syncSearchHandle != NULL)
277 1  {
278 1  GRST_CancelSyncDialog (syncSearchHandle);
279 1  syncSearchHandle = NULL;
280 1  }
281 1  }
282 1  }
283 1  }
284 1  /* If there is a search in progress then cancel the find operation
285 1  */
286 1  {
287 1  if (searchInProgress)
288 1  {
289 1  /* Cancel the find operation, ignore results */
290 1  ERMST_GetFindResults (GRST_Handle,
291 1  BOOL_TRUE,
292 1  1,
293 1  foundObjects,
294 1  time_t,
295 1  errno,
296 1  GRST_Searchhook);
297 1  }
298 1  }
299 1  }
300 1  }

```

```

298 //*****
299 * REST_Display/SearchInProgress
300 *
301 * Description:
302 * This procedure will display the search in progress dialog and
303 * initialize the current number of entries found.
304 *
305 * Parameters:
306 * None.
307 *
308 * Returns:
309 * None.
310 *
311 *****/
312
313 void REST_Display/SearchInProgress (void)
314 {
315     time_t start_time; /* Current start time */
316     time_t end_time; /* Current end time */
317
318     /* Do nothing if we're already searching,
319     or a restore is in progress */
320     if (REST_SearchInProgress() || REST_RestoreInProgress())
321         return;
322
323     /* Get the start backup date/time */
324     start_time = (time_t)W3T_GetClientRes ((
325         W3TPtr)REST_SearchWindow->StartDateOutput);
326
327     /* Get the end backup date/time */
328     end_time = (time_t)W3T_GetClientRes ((
329         W3TPtr)REST_SearchWindow->EndDateOutput);
330
331     /* Validate the search start and end times */
332     if (start_time > end_time)
333     {
334         /* The start time is after the end time.
335         no searching can be done */
336         GALENT_DisplayError ((WinPtr)REST_SearchWindow,
337             REST_GetErrorString (REST_SEARCH_FAIL_TITLE),
338             GICON_GetError(),
339             REST_GetErrorString (REST_SEARCH_TIME_ERROR));
340     }
341     else
342     {
343         /* Initialize the number of current entries to zero */
344         REST_CurrentEntries = 0;
345
346         /* Initialize the window */
347         syncSearchHandle = GALENT_DisplaySynchronousWait
348             ((WinPtr)REST_SearchWindow,
349             REST_GetErrorString (
350                 REST_SEARCH_PROGRESS_TITLE),
351             GICON_GetIcon (I_WAIT),
352             REST_GetErrorString (REST_SEARCH_IN_PROGRESS),
353             BOOL_TRUE);
354
355         /* Delay a bit to make sure the dialog is visible */
356         EVENT_StartBackAlarm ((REST_SearchStartTime,
357             (ClientPtr)NULL,
358             SEARCH_ALARM_DELAY);
359     }
360 }

```


Page 376 of 444	REST_SearchUpdateButtons	Fri Jan 04 14:31:46 2008
455 3	((IDMNST_GetObjectStatus (REST_Handle, foundObject->object) !=	
456 3	BACKUP_Bad) ||	
457 3	REST_MarkDefListes))	
458 4	{ // It is markable, so enable the mark button */	
459 4	markEnabled = BOOL_TRUE;	
460 3	}	
461 3	}	
462 2		
463 2	/* Else this object is marked so enable the unmark button */	
464 2	else	
465 2	{ unmarkEnabled = BOOL_TRUE;	
466 2	}	
467 1		
468 2	/* Get the object at the next selected row position */	
470 2	foundrow = GUTTL_IBoxX_GetNextVBoxSelectedRow (REST_SearchWindow->Foundbox);	
471 2	foundObject = REST_SearchObjectFromItem (foundrow);	
472 2		
473 1)	
474 1	/* If any items were in the list */	
475 1	if (itemExists)	
476 1	{	
477 2	/* Only enable the set view button if only one object is selected */	
478 2	if (selectedCount == 1)	
479 2	setViewEnabled = BOOL_TRUE;	
480 1	}	
481 1		
482 1	/* Apply what we have determined */	
483 1	WGT_SetEnabled (WGT_Ptr)REST_SearchWindow->Markbutton, markEnabled;	
484 1	WGT_SetEnabled (WGT_Ptr)REST_SearchWindow->Unmarkbutton, unmarkEnabled;	
485 1	WGT_SetEnabled (WGT_Ptr)REST_SearchWindow->SetViewbutton, setViewEnabled;	
486 1		
487)	

Page 376 of 444	REST_SearchFillBox	Fri Jan 04 14:31:46 2008
488	/*	
489	REST_SearchFillBox	
490	*****	
491	/* Description:	
492	* This routine will fill the virtual listbox rows given the start	
493	* row number in row 1) and the bounds of the list box rows.	
494	* row number in row 1) and the bounds of the list box rows.	
495	* Parameters: (1) - The virtual list box to fill	
496	* (2) - The first row number that is row in row 1	
497	* (3) - The last row number that is row in row 1	
498	* (4) - The number of rows in the list box	
499	* Returns:	
500	* None.	
501	* *	
502	* *	
503	* *	
504	*****	
505	static void REST_SearchFillBox (IBoxX lbox,	
506	int32 startrow,	
507	int32	
508	int16 bounds)	
509 1	{	
510 1	REST_FoundObjectPtr nextObject;	
511 1	ClientPtr clientData;	
512 1	int32 count = 1;	
513 1	int16 row;	
514 1		
515 1	/* get to the correct object in the list */	
516 1	nextObject = firstFoundObject;	
517 1	while ((nextObject != NULL) && (count < startrow))	
518 2	{	
519 2	nextObject = nextObject->next;	
520 2	count ++;	
521 1	}	
522 1	/* Put the next set of rows in the lbox, even if NULL */	
523 1	REST_SearchBoxFrozen = BOOL_TRUE;	
524 1	row = 1;	
525 1	while (row <= bounds)	
526 1	{	
527 2	/* Go to the row (rows start at 1) */	
528 2	IBoxX_GotoLine (lbox, row);	
529 2		
530 2	/* Set the client data for this row */	
531 2	IBoxX_ClientData (lbox, (ClientPtr)nextObject);	
532 2		
533 2	/* go to the next object */	
534 2	if (nextObject != NULL)	
535 2	{	
536 2	nextObject = nextObject->next;	
537 2	row ++;	
538 1	}	
539 1	REST_SearchBoxFrozen = BOOL_FALSE;	
540 1		
541 1	/* Now fill in the client data */	
542 1	IBoxX_GoHome (REST_SearchWindow->Foundbox);	
543 1	row = 1;	
544 1	while ((clientData = IBoxX_ClientData {	
545 1	REST_SearchWindow->Foundbox) != NULL)	
546 2	{	
547 2	GUTTL_FillDataInRow (REST_SearchWindow->Foundbox,	
548 2	clientData,	
549 2	row,	
550 2	NUMBER_FOUND_COLUMNS	
551 2	REST_GetSearchListCol (umwVJues);	
552 2	row ++;	
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```

553 2 ) LBOX.GoCol1Row (REST_SearchWindow->FindBox, row);
554 1 )
555

```

```

557 //.....
558 * REST_SearchDisplay
559 *
560 * Description:
561 * This routine will display the search window, with the starting
562 * search directory to the given directory ( / if NULL ).
563 *
564 * Parameters:
565 *   currentDirectory (1) - Directory to start the search from
566 * Returns:
567 *   None
568 *
569 *.....

```

```

572 void REST_SearchDisplay (Str currentDirectory)
573 {
574     time_t      currentTime;
575
576     Char         currentString[SMALL_STRING_LENGTH]; /* Current backup time */
577     Char         dateString[SMALL_STRING_LENGTH];    /* String for the date */
578     GREST_Object currentMT;                          /* Work-item to search */
579
580     Char         windowLabel[MAX_STRING_LENGTH];     /* Label for the window */
581     Char         name[MAX_CLIENT_NAME_LENGTH];       /* Name of the work-item */
582
583     if (REST_SearchDisplayed)
584     {
585         /* Load up the window's resources */
586         REST_SearchWindowInit ();
587
588         /* Set buttons and labels to default values */
589         TED_SetStr ((
590             TED_Ptr)REST_SearchWindow->DirectoryText, currentDirectory);
591         TED_SetSelected ((
592             TED_Ptr)REST_SearchWindow->DescendToggle, BOOL_TRUE);
593         TED_ClearAll ((TED_Ptr)REST_SearchWindow->StringText);
594         TED_SetSelected ((
595             TED_Ptr)REST_SearchWindow->IncludeRadio, BOOL_TRUE);
596         TED_ClearAll ((TED_Ptr)REST_SearchWindow->Overwrite);
597         TED_SetSelected ((
598             TED_Ptr)REST_SearchWindow->IncludeGroupToggle, BOOL_TRUE);
599         TED_SetSelected ((
600             TED_Ptr)REST_SearchWindow->ExcludeGroupToggle, BOOL_FALSE);
601         TED_ClearAll ((TED_Ptr)REST_SearchWindow->Overwrite);
602         TED_SetSelected ((
603             TED_Ptr)REST_SearchWindow->IncludeGroupToggle, BOOL_TRUE);
604         TED_SetSelected ((
605             TED_Ptr)REST_SearchWindow->AllTypesToggle, BOOL_TRUE);
606         TED_ClearAll ((TED_Ptr)REST_SearchWindow->AllStatusToggle, BOOL_TRUE);
607         TED_SetSelected ((
608             TED_Ptr)REST_SearchWindow->BigText);
609         TED_Ptr REST_SearchWindow->GreaterThanToggle, BOOL_FALSE;
610         TED_Ptr REST_SearchWindow->LessThanToggle, BOOL_FALSE;
611         TED_SetSelected ((
612             TED_Ptr)REST_SearchWindow->EqualToggle, BOOL_TRUE);

```



```

660 .....
661 * Function Name: REST_SearchRemove () .....
662 .....
663 * Description:
664 * This routine will remove the search window.
665 .....
666 * Parameters:
667 * None.
668 .....
669 * Success Outputs and Side Effects:
670 * None.
671 .....
672 * Returns:
673 * None.
674 .....
675 .....
676 .....
677 Boolean REST_SearchRemove (void)
678 {
679     returnStatus; /* Duh, status to remove */
680     REST_FoundObjectPtr thisObject; /* Pointer to found object to dispose */
681     REST_FoundObjectPtr nextObject; /* Next found object in the list */
682
683     /* Do nothing if a restore is in progress */
684     if (REST_RestoreInProgress())
685     {
686         return (BOOL_FALSE);
687     }
688
689     /* We only care if the window is displayed */
690     if (REST_SearchDisplayed)
691     {
692         /* If the user is currently searching, stop the search */
693         REST_SearchCancel ();
694
695         /* Stop any alarms that were set */
696         EVENT_StopBackAlarm ((ClientPtr)REST_Handle);
697
698         REST_SearchDisplayed = BOOL_FALSE;
699
700         /* Remove the window, but no need to tell us about it */
701         WIN_SelfTerminate ((WinPtr)REST_SearchWindow);
702
703         /* Free the current found list */
704         thisObject = firstFoundObject;
705         while (thisObject != NULL)
706         {
707             nextObject = thisObject->next;
708             REST_SearchDisposeInfo (thisObject);
709             thisObject = nextObject;
710         }
711         firstFoundObject = NULL;
712         lastFoundObject = NULL;
713
714         REST_SearchWindow = NULL;
715
716         returnStatus = BOOL_TRUE;
717     }
718     else
719     {
720         returnStatus = BOOL_FALSE;
721     }
722 }
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```

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743 1 /* Return whether or now we actually had to remove the window */
744 1 return (returnStatus);
745 1 }

```

Page 383 of 444	REST_SearchWindowDisplayed	Fri Jan 04 14:31:46 2008	Page 384 of 444	REST_SearchGetTime	Fri Jan 04 14:31:46 2008
<pre> 747 /***** 748 * 749 * Function Name: REST_SearchWindowDisplayed () 750 * 751 * Description: 752 * This routine will determine if the search window is currently 753 * displayed. 754 * Parameters: 755 * None. 756 * Success Outputs and Side Effects: 757 * None. 758 * Returns: 759 * BOOL_TRUE - If the window is displayed 760 * BOOL_FALSE - Otherwise. 761 * 762 *****/ 763 764 765 766 Boolean REST_SearchWindowDisplayed (void) 767 { 768 return (REST_SearchDisplayed); 769 }</pre>			<pre> 771 /***** 772 * Function Name: REST_SearchGetTime () 773 * 774 * Description: 775 * This routine will query the user for a backup date/time and 776 * the date edit widget with the new date if selected. 777 * update 778 * Parameters: 779 * None. 780 * Success Outputs and Side Effects: 781 * None. 782 * Returns: 783 * None. 784 * 785 *****/ 786 787 788 789 void REST_SearchGetTime (TDateTime *pTime) 790 { 791 Char dateString[SMALL_STRING_LENGTH]; /* New date string */ 792 TDateTime currentTime; /* Current work item */ 793 TDateTime newTime = 0; /* New backup time */ 794 795 /* Do nothing if we're searching, or a restore is in progress */ 796 if (REST_SearchInProgress() || REST_RestoreInProgress()) 797 return; 798 799 /* Get the currently selected time */ 800 currentTime = (TDateTime)WGetClientData (WGetParent(pTime)); 801 802 /* Get the work item */ 803 TWorkItem *currentWI = REST_GetCurrentWorkItem (); 804 if (currentWI != NULL) 805 { 806 /* Query the user for the new start time */ 807 newTime = REST_GetSelectedDateTime (currentWI, 808 currentTime, 809 WFindParent(REST_SearchWindow)); 810 } 811 812 /* If the user selected a time */ 813 if (newTime != 0) 814 { 815 /* Get the new date string */ 816 dateString = 817 SMALL_STRING_LENGTH, 818 "%d %d %d %d %d %d", 819 localTime (newTime); 820 821 TDateTime *pTime = new TDateTime (dateString); 822 *pTime = newTime; 823 } 824 }</pre>		
Page 385 of 444	resSearchMgr.c 19	Fri Jan 04 14:31:46 2008	Page 384 of 444	resSearchMgr.c 20	Fri Jan 04 14:31:46 2008

```

828 //
829 * REST_GetSearchListColumnValues
830 *
831 * Description:
832 * This routine will return the drawables for the given information
833 * for the given search results list box column.
834 *
835 * Parameters:
836 * (1) - The list box to draw to (NOT used)
837 * (2) - The data in the cell
838 * clientData
839 * (1) - The row of the cell a private data structure)
840 * column
841 * (1) - The column of the cell.
842 * text
843 * justification (0) - The text to draw in the cell.
844 * icon1
845 * (0) - The first icon to draw in the cell.
846 * icon2
847 * (0) - The second icon to draw in the cell.
848 * overlayIcon1
849 * (0) - The first overlayed icon to draw in the cell.
850 * overlayIcon2
851 * (0) - The second overlayed icon to draw in the cell.
852 *
853 * Returns:
854 * BOOL, TRUE - If the cell should be drawn
855 * BOOL, FALSE - otherwise
856 *
857 *****
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```

```

869 // Initialize everything to blank
900 * icon1 = NULL;
901 * icon2 = NULL;
902 STR_Copy (text, **);
903
904 // Determine each value based on the given info and the column
905 if ((info != NULL) && (column <= NUMBER_FOUND_COLUMNS))
906 {
907 // Draw this cell
908
909 if (column == BACKUP_TIME_COLUMN)
910 {
911 // get the backup time string
912 strtime (text,
913 EMKST_CELL_STRING_LENGTH,
914 localtime (&info->backuptime));
915 }
916
917 else if (column == MARK_COLUMN)
918 {
919 *icon1 = searchCheckBoxIcon;
920
921 // Get the overlay icon
922 if (EMKST_LABOBJ_SELECTEDTIME {
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1000 if (EMKST_LABOBJ_SELECTEDTIME {

```

Page 387 of 444	REST_GaISearchLinkColumnValues	Fri Jan 04 14:31:46 2008
951 3	{	
952 3	/* get the string for the permissions */	
953 3	STR_Copy (text, GREST_GetPermissionsString (GREST_Handle, info->object));	
954 2	}	
955 2	else if (column == OWNER_COLUMN)	
956 2	{	
957 2	/* get the string for the owner */	
958 3	STR_Copy (text, EDMRST_GetObjectOwnerString (GREST_Handle, info->object));	
959 3	}	
960 2	else if (column == GROUP_COLUMN)	
961 2	{	
962 3	/* get the string for the group */	
963 3	STR_Copy (text, EDMRST_GetObjectGroupString (GREST_Handle, info->object));	
964 3	}	
965 3	else if (column == SIZE_COLUMN)	
966 2	{	
967 3	/* get the string for the size */	
968 3	size = EDMRST_GetObjectSize (GREST_Handle, info->object);	
969 3	REST_SprintfHyper (text, size);	
970 3	* justification = DRAW_JUSTIFYLEFT | DRAW_JUSTIFYCENTER;	
971 3	}	
972 2	else if (column == DATE_COLUMN)	
973 2	{	
974 3	/* get the string for the date */	
975 3	thetime = EDMRST_GetObjectDate (GREST_Handle, info->object);	
976 3	strftime (text, GMAX_CELL_STRING_LENGTH, "%d %d", localtime (&thetime));	
977 3	}	
978 2	else if (column == TIME_COLUMN)	
979 2	{	
980 3	/* get the string for the time */	
981 3	thetime = EDMRST_GetObjectDate (GREST_Handle, info->object);	
982 3	now = time (time_t *)NULL);	
983 3	/* If the object is over a year old, display the year */	
984 3	if ((now - thetime) > SECONDS_PER_YEAR)	
985 3	{	
986 3	strftime (text, GMAX_CELL_STRING_LENGTH, "%Y", localtime (&thetime));	
987 3	}	
988 3	/* Otherwise display the time */	
989 3	else	
990 3	{	
991 3	strftime (text, GMAX_CELL_STRING_LENGTH, "%H:%M", localtime (&thetime));	
992 3	}	
993 3	}	
994 3	/* Don't draw this cell */	
995 3	redraw = BOOL_TRUE;	
996 3	}	
997 3	/* Return whether or not to redraw */	
998 3	return (redraw);	
999 3	}	
1000 1		
1001 1		
1002 1		
1003 1		
1004 1		
1005 1		

Page 388 of 444	REST_SearchInProgress	Fri Jan 04 14:31:46 2008
1012	/*	
1013	* REST_SearchInProgress	
1014	* Description:	
1015	* This routine returns whether or not a search is currently in progress.	
1016		
1017	* Parameters:	
1018	* None.	
1019	* Returns:	
1020	* BOOL_TRUE - If a search has been started (and is not yet finished)	
1021	* BOOL_FALSE - Otherwise.	
1022		
1023		
1024		
1025		
1026	boolFrom	
1027	REST_SearchInProgress (void)	
1028 1	{	
1029 1	return (searchInProgress);	
1030	}	

```

1032 //.....
1033 * REST_SearchFindTimeout .....
1034 *
1035 * Description:
1036 *   This routine checks for the next set of find results
1037 *
1038 * Parameters:
1039 *   clientData - Not used
1040 *
1041 * Returns:
1042 *   None.
1043 *
1044 *
1045 static void REST_SearchFindTimeout (ClientPer clientData)
1046 {
1047     Long numBytes; /* Number found */
1048     CString strStatus; /* Search status string */
1049     GREST_Object foundObjects[MAX_FOUND_OBJECTS]; /* Array of objects found */
1050     time_t times[MAX_FOUND_OBJECTS]; /* Backup times for objects */
1051     int i; /* Loop index */
1052     errno_t errNo; /* Error code returned */
1053     BackgroundStatus objStatus; /* Current object's status */
1054     BoolEnum isCancelled; /* Flag to if cancelled */
1055     BoolEnum boolEnum; /* Flag to display error */
1056     BoolEnum allowAll; /* Flag if all status is OK */
1057     BoolEnum allowGood; /* Flag if only good is OK */
1058     BoolEnum allowBad; /* Flag if only bad is OK */
1059
1060     /* Allocate space for the next array of objects */
1061     if (EDMRST_AllocStoreObjObjects (GREST_Handle,
1062                                     MAX_FOUND_OBJECTS) == E_SUCCESS)
1063     {
1064         /* Initialize this pass */
1065         numBytes = 0;
1066
1067         isCancelled = REST_CheckForCancel();
1068
1069         if ((errNo = EDMRST_GetFindResults (GREST_Handle,
1070                                             MAX_FOUND_OBJECTS,
1071                                             foundObjects,
1072                                             times,
1073                                             numBytes,
1074                                             GREST_SearchCookie()) ==
1075             E_SUCCESS)
1076         {
1077             /* Get the current status flags */
1078             allowAll = TRUE;
1079             allowGood = TRUE;
1080             allowBad = TRUE;
1081             if (GREST_SearchWindow->GoodStatusToggle)
1082                 REST_SearchWindow->GoodStatusToggle();
1083             if (GREST_SearchWindow->BadStatusToggle)
1084                 REST_SearchWindow->BadStatusToggle();
1085         }
1086     }

```

```

1086     }
1087     /* Update the number of entries found so far */
1088     REST_CurrentEntries += numBytes;
1089     /* Add each found object */
1090     for (i=0; i<numBytes; i++)
1091     {
1092         /* Make sure it passes our internal test for status (
1093            not in API) */
1094         objStatus = EDMRST_GetObjStatus (
1095             GREST_Handle, foundObjects[i]);
1096         if (allowAll ||
1097             (allowGood && (objStatus == Backup_Good)) ||
1098             (allowBad && (objStatus == Backup_Bad)))
1099         {
1100             /* Add the object to the list of found objects */
1101             REST_AddFoundItem (foundObjects[i], times[i]);
1102         }
1103         else
1104         {
1105             /* This one don't pass, decrement the number found */
1106             REST_CurrentEntries--;
1107         }
1108     }
1109     /* Free this object */
1110     EDMRST_FreeStoreObjObjects (
1111         GREST_Handle, &foundObjects[i], 1);
1112     }
1113     else if (errNo == EP_RECOVER_FIND_INTERRUPTED)
1114     {
1115         /* The search was cancelled */
1116         GALEST_DisplayError (WinHndlREST_SearchWindow,
1117                             GALEST_DisplayError (WINHNDLREST_SearchWindow,
1118                                                     GLEST_CANCEL_SEARCH_TITLE,
1119                                                     GLEST_GetErrorStr(),
1120                                                     REST_Cancel_Search_Message));
1121     }
1122     /* We're done */
1123     REST_SearchCookie = DONE_COOKIE;
1124     else if (errNo != EP_RECOVER_BRC_INCOMPLETE)
1125     {
1126         /* Flag that we want to display an error message */
1127         displayError = BOOL_TRUE;
1128     }
1129     /* We're done */
1130     REST_SearchCookie = DONE_COOKIE;
1131     if (numBytes > 0)
1132     {
1133         /* Free up the left overs */
1134         EDMRST_FreeStoreObjObjects (GREST_Handle,
1135                                     &foundObjects[numBytes],
1136                                     MAX_FOUND_OBJECTS - numBytes);
1137     }
1138     else
1139     {
1140         /* Error allocating restorable objects, boogie on out */
1141         REST_SearchCookie = DONE_COOKIE;
1142     }
1143     if (REST_SearchCookie == DONE_COOKIE)
1144         restSearchMfc.c 25

```


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1144 2	{	
1145 2	/* Flag that the search is done */	
1146 2	searchInProgress = BOOL_FALSE;	
1148 2	/* Make sure the window is still active */	
1149 2	if (REST_SearchWindow != NULL)	
1150 2	{	
1151 3	/*	
1152 3	* Update the search result status	
1153 3	*/	
1155 3	/* Update the status text */	
1156 3	SPR_SetFindStatusText("id", REST_CurrentEntries);	
1157 3	TD_Scroll(0	
1159 3	Taber) REST_SearchWindow->ItemsFoundText, statusString);	
1160 3		
1162 3	/* Fill the listbox */	
1163 3	REST_SearchWindow->FindBox, REST_CurrentEntries);	
1164 3	/* Update the search results action buttons */	
1165 3	REST_SearchButtons(0);	
1166 3	/* Remove the working dialog */	
1167 3	REST_SearchCancel(0);	
1168 3	/* If there was an error, display the error message */	
1169 3	if (displayError)	
1170 3	{	
1171 4	/* Process events to remove the in progress dialog */	
1172 4	EVENT_ProcessPending(0);	
1174 4		
1175 4	/* Display the current error message */	
1176 4	REST_DisplayErrorMessage((WPARAM)REST_SearchWindow,	
1177 4	REST_GetErrorText(0,	
1178 4	REST_Search_FAIL_TITLE,	
1179 4	NULL,	
1180 2	errorno);	
1181 1	}	
1182 1	}	
1183 2	else	
1184 2	{	
1185 3	if (errorno == EP_RR_RECOVER_PRG_INCOMPLETE)	
1186 3	{	
1187 3	EVENT_StartCheckAlarm(REST_SearchFindTimeout,	
1188 3	clientData,	
1189 2	RESTORE_START_FIND_RESULTS_DELAY);	
1190 2	}	
1191 2	else	
1192 2	{	
1193 3	EVENT_StartCheckAlarm(REST_SearchFindTimeout,	
1194 3	clientData,	
1195 2	RESTORE_CONT_FIND_RESULTS_DELAY);	
1196 1	}	
1197 1	}	

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1199	/*	
1200	* Function Name: REST_SearchStartSearch(0)	
1201	*****	
1202	* Description:	
1203	* This routine will start the search based on current criteria	
1204	* Found in the widgets.	
1205	*****	
1206	* Parameters:	
1207	* None.	
1208	* Success Outputs and Side Effects:	
1209	* The search results widgets will be updated.	
1210	* Returns:	
1211	* None.	
1212	*****	
1213	void REST_SearchStartSearch(void)	
1214	{	
1215	ERRRC_SearchCriteriaRec searchRec;	
1216 1	Char	/* Criteria for search */
1217 1	sizeString[SMALL_STRING_LENGTH];	
1218 1	/* Size criteria from TMD */	
1219 1	errorno;	/* Error code returned */
1220 1		
1221 1	errorno_by	
1222 1		
1223 1	/* Do nothing if we're searching, or a restore is in progress */	
1224 1	if (REST_SearchInProgress() || REST_RestoreInProgress())	
1225 1	return;	
1227 1	/* Get the search directory */	
1228 1	TMD_QueryGet((void*)&REST_SearchWindow->DirectoryText,	
1229 1	searchRec.startDirectory,	
1230 1	MAX_STRING_LENGTH);	
1231 1		
1232 1	/* Standardize pathname: convert NT notation to UNIX */	
1233 1	REST_StandardizePath(searchRec.startDirectory);	
1234 1		
1235 1	if (STR_Cmp(searchRec.startDirectory, "") == CMP_EQUAL)	
1236 1	STR_Copy(searchRec.startDirectory, "");	
1237 1		
1238 1	/* Get whether or not to descend into sub directories */	
1239 1	searchRec.descendDirectory = TMD_GetSelected(0	
1240 1	TabPr) REST_SearchWindow->descendFlag);	
1241 1		
1242 1	/* Get the search string */	
1243 1	TMD_QueryGet((void*)&REST_SearchWindow->StringText, searchRec.searchString,	
1244 1	startPr) REST_SearchWindow->stringText, MAX_FILENAME_LENGTH);	
1245 1		
1246 1	/* Standardize pathname: convert NT notation to UNIX */	
1247 1	REST_StandardizePath(searchRec.searchString);	
1248 2		
1249 2	if (STR_Cmp(searchRec.searchString, "") == CMP_EQUAL)	
1250 2	/* Default to everything. (
1251 2	STR_Copy(searchRec.searchString, "");	
1252 2	searchRec.excludeString = BOOL_FALSE;	
1253 1	else	
1254 2	{	
1255 2	/* Get whether or not to exclude the search string */	
1256 2	searchRec.excludeString = TMD_GetSelected(0	
1257 2	TabPr) REST_SearchWindow->excludeFlag);	

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REST_SearchStartSearch	REST_SearchStartSearch
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<pre> 1259 1) 1259 1 /* Get the type of objects to search for */ 1260 1 if (TBDUT_GetSelected(TbDUTPtr)REST_SearchWindow->AllTypeToggle) 1261 1 searchRec.typeOfFile = ALL_File_Types; 1262 1 else if (TBDUT_GetSelected(TbDUTPtr)REST_SearchWindow->DirectorToggle) 1263 1 searchRec.typeOfFile = Directorate_Only; 1264 1 else if (TBDUT_GetSelected(TbDUTPtr)REST_SearchWindow->FileToggle) 1265 1 searchRec.typeOfFile = File_Only; 1266 1 else 1267 1 searchRec.typeOfFile = Others_Only; 1268 1 /* Get the owner to limit the search to */ 1269 1 TBDUT_QueryStr (TbDUTPtr)REST_SearchWindow->OwnerText, searchRec.owner, 1270 1 MAX_FILENAME_LENGTH; 1271 1 /* Get whether or not to exclude the owner */ 1272 1 searchRec.excludeOwner = TBDUT_GetSelected (TbDUTPtr)REST_SearchWindow->ExcludeOwnerToggle; 1273 1 /* Get the group to limit the search to */ 1274 1 TBDUT_QueryStr (TbDUTPtr)REST_SearchWindow->GroupText, searchRec.group, 1275 1 MAX_FILENAME_LENGTH; 1276 1 /* Get whether or not to exclude the group */ 1277 1 searchRec.excludeGroup = TBDUT_GetSelected (TbDUTPtr)REST_SearchWindow->ExcludeGroupToggle; 1278 1 /* Get the size string */ 1279 1 TBDUT_QueryStr (TbDUTPtr)REST_SearchWindow->SizeText, SMALL_STRING_LENGTH; 1280 1 if (TBDUT_GetSelected(TbDUTPtr)REST_SearchWindow->GreaterThanToggle) 1281 1 if (strcmping == NULL) && (strlen(sizeString) > 0) 1282 1 /* Convert the string to a hyper */ 1283 1 REST_SearchHyper (sizeString, &searchRec.sizeInBytes); 1284 1 /* Get the size criteria */ 1285 1 if (TBDUT_GetSelected(TbDUTPtr)REST_SearchWindow->GreaterThanToggle) 1286 1 searchRec.sizeMatch = EHRC_GreaterThan; 1287 1 else if (TBDUT_GetSelected(TbDUTPtr)REST_SearchWindow->LessThanToggle) 1288 1 searchRec.sizeMatch = EHRC_LessThan; 1289 1 else 1290 1 searchRec.sizeMatch = EHRC_Equal; 1291 1 /* Search for all sizes */ 1292 1 searchRec.sizeMatch = EHRC_AllSizes; 1293 1 /* Get the start backup date/time */ 1294 1 searchRec.startTime = (time_t)TBDUT_GetCJcentRes (WgPtr)REST_SearchWindow->StartDateOutput; 1295 1 /* Get the end backup date/time */ 1296 1 searchRec.endTime = (time_t)WgPtr)REST_SearchWindow->EndDateOutput; 1297 1 /* Post the event queue */ 1298 1 EVENT_DiscussEvents (1); 1299 1 </pre>	<pre> 1310 1 EVENT_ProcessPending (1); 1311 1 /* Initialize the number of entries found so far */ 1312 1 REST_CurrentEntries = 0; 1313 1 /* Flag that the search is in progress */ 1314 1 searchInProgress = BOOL_TRUE; 1315 1 /* Clear the previous entries */ 1316 1 REST_ClearPreviousEntries (); 1317 1 /* Find the next group of objects */ 1318 1 if ((eerrno == EHRCST_Finderiorioleobjects (GREST_Handle, &searchRec) == E_SUCCESS) 1319 1 { 1320 1 REST_SearchCookie = INIT_COOKIE; 1321 1 EVENT_StartBackAlarm (REST_SearchIndTimeOut, 1322 1 (GREST_Finderiorioleobjects (GREST_Handle, &searchRec, 1323 1 REST_Start_Find_Results_Delay)); 1324 1 } 1325 1 else 1326 1 /* Display the current error message */ 1327 1 REST_DisplayErrorMessage (WgPtr)REST_SearchWindow, 1328 1 REST_GetErrorString (REST_Search_Pail_Title, 1329 1 NULL, 1330 1 eerrno); 1331 1 } 1332 1 </pre>

Page 386 of 444		REST_SearchToggleMark	Fri Jan 04 14:31:46 2008	Page 386 of 444	REST_SearchToggleMark	Fri Jan 04 14:31:46 2008
1339	1339	/*.....*		1400	1400	
1340	1340	* Function Name: REST_SearchToggleMark ()		1401	1401	{
1341	1341	*		1402	1402	/* Redraw the list boxes, to update the current marks */
1342	1342	* Description:		1403	1403	SWHM_SearchWindow->textBox1;
1343	1343	* This function will mark/unmark the give item.		1404	1404	SWHM_SearchWindow->textBox2;
1344	1344	* Parameters:		1405	1405	SWHM_SearchWindow->textBox3;
1345	1345	* object (I) - The object to toggle the marking of		1406	1406	SWHM_SearchWindow->textBox4;
1346	1346	*		1407	1407	SWHM_SearchWindow->textBox5;
1347	1347	* Success Outputs and Side Effects:		1408	1408	SWHM_SearchWindow->textBox6;
1348	1348	* The object will be marked or unmarked for restore.		1409	1409	SWHM_SearchWindow->textBox7;
1349	1349	* Returns:		1410	1410	SWHM_SearchWindow->textBox8;
1350	1350	* None.		1411	1411	SWHM_SearchWindow->textBox9;
1351	1351	*		1412	1412	SWHM_SearchWindow->textBox10;
1352	1352	*		1413	1413	SWHM_SearchWindow->textBox11;
1353	1353	*		1414	1414	SWHM_SearchWindow->textBox12;
1354	1354	*		1415	1415	SWHM_SearchWindow->textBox13;
1355	1355	*		1416	1416	SWHM_SearchWindow->textBox14;
1356	1356	void REST_SearchToggleMark (ClientPtr object)				
1357	1357	{				
1358	1358	REST_FoundObjectPtr info;				
1359	1359	Boolean marked = BOOL_FALSE;				
1360	1360	Long numberMarked = 0;				
1361	1361	Long numberUnMarked = 0;				
1362	1362	UType localSize;				
1363	1363	/* Do nothing if we're searching, or a restore is in progress */				
1364	1364	if (REST_SearchInProgress() || REST_RestoreInProgress())				
1365	1365	return;				
1366	1366	info = (REST_FoundObjectPtr) object;				
1367	1367	if (info != NULL)				
1368	1368	{				
1369	1369	/* Determine if this object is markable */				
1370	1370	if (GREST_IsObjectMarkableForTime (GREST_Handle,				
1371	1371	info->object,				
1372	1372	info->backuptime) &&				
1373	1373	{				
1374	1374	EDMRST_GetObjectStatus (GREST_Handle,				
1375	1375	info->object) = Backup_Dead ||				
1376	1376	REST_MarkBadFiles)				
1377	1377	{				
1378	1378	if (GREST_IsObjectMarkedForTime {				
1379	1379	GREST_Handle, info->object, info->backuptime)				
1380	1380	{				
1381	1381	marked = REST_MarkRestorableObject (info->object,				
1382	1382	info->backuptime,				
1383	1383	numberMarked,				
1384	1384	numberUnMarked);				
1385	1385	}				
1386	1386	/* Otherwise, unmark it for restore */				
1387	1387	else				
1388	1388	{				
1389	1389	marked = REST_UnmarkRestorableObject (info->object,				
1390	1390	info->backuptime,				
1391	1391	numberMarked,				
1392	1392	numberUnMarked);				
1393	1393	}				
1394	1394	/* Update the mark flags for all objects */				
1395	1395	REST_UpdateObjectMarks (currentWorkItemInfo);				
1396	1396	}				
1397	1397	/* (marked)				
1398	1398	/* (marked)				
1399	1399	/* (marked)				
1400	1400	/* (marked)				
1401	1401	/* (marked)				
1402	1402	/* (marked)				
1403	1403	/* (marked)				
1404	1404	/* (marked)				
1405	1405	/* (marked)				
1406	1406	/* (marked)				
1407	1407	/* (marked)				
1408	1408	/* (marked)				
1409	1409	/* (marked)				
1410	1410	/* (marked)				
1411	1411	/* (marked)				
1412	1412	/* (marked)				
1413	1413	/* (marked)				
1414	1414	/* (marked)				
1415	1415	/* (marked)				
1416	1416	/* (marked)				

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REST_SearchSetMark	REST_SearchSetMark
<pre> 1418 1419 * Function Name: REST_SearchSetMark () 1420 * 1421 * Description: 1422 * This routine will mark/unmark all selected items in the search 1423 * results 1424 * 1425 * List box. 1426 * 1427 * Parameters: 1428 * setMark (i) - flag if the items should be marked or unmarked. 1429 * 1430 * Success Outputs and Side Effects: 1431 * The selected items will be marked or unmarked for restore. 1432 * 1433 * Returns: 1434 * None. 1435 * 1436 1437 void REST_SearchSetMark (Boolean setMark) 1438 { 1439 REST_FoundObject obj; 1440 long numberMarked; 1441 long numberUnMarked; 1442 Boolean thistMark; 1443 Boolean marked = BOOL_FALSE; 1444 Boolean lclIsType; 1445 if (Do nothing if we're searching, or a restore is in progress *) 1446 if (REST_SearchInProgress() REST_RestoreInProgress()) 1447 return; 1448 /* If any rows are selected */ 1449 if (LBX_GoRowSelFirst (REST_SearchWindow->FoundBox) == BOOL_TRUE) 1450 { 1451 /* Go to the first row */ 1452 LBX_GoHome (REST_SearchWindow->FoundBox); 1453 /* Loop through all rows that have data */ 1454 while ((info = REST_FoundObjectPerLBX_CurrentClientData) 1455 REST_SearchWindow->FoundBox) != NULL) 1456 { 1457 /* If this row is selected, set the mark appropriately */ 1458 if (LBX_IsItemSelected (REST_SearchWindow->FoundBox)) 1459 { 1460 /* If this is a mark operation, then mark it for restore */ 1461 if (setMark) 1462 { 1463 if (!REST_IsObjectMarkedForTime (1464 REST_Handle, info->obj, info->backUpTime)) 1465 { 1466 thistMark = REST_MarkRestorableObject (info->obj, 1467 info->backUpTime, 1468 numberMarked, 1469 numberUnMarked, 1470 numberBad); 1471 } 1472 } 1473 /* Otherwise, unmark it for restore */ 1474 else 1475 { 1476 if (REST_IsObjectMarkedForTime (1477 REST_Handle, info->obj, info->backUpTime)) 1478 { 1479 thistMark = REST_UnmarkRestorableObject (info->obj, 1480 info->backUpTime, 1481 numberMarked, 1482 numberBad); 1483 } 1484 } 1485 } 1486 /* Set the flag if anything has been marked yet */ 1487 marked = (marked thistMark); 1488 } 1489 /* Go to the next row */ 1490 LBX_GoDown (REST_SearchWindow->FoundBox); 1491 } 1492 /* Update the mark flags for all objects */ 1493 REST_UpdateObjectMarks (currentWorkItemInfo); 1494 /* If any mark or unmark was successful, update the display */ 1495 if (marked) 1496 { 1497 /* Redraw the list boxes, to update the current marks */ 1498 SAREA_RedrawParts ((SAREAPtr) REST_SearchWindow->FoundBox); 1499 SAREA_RedrawParts ((SAREAPtr) REST_SearchWindow->BackUpListBox); 1500 SAREA_RedrawParts ((SAREAPtr) REST_RestoreWin->SelectedListBox); 1501 } 1502 /* Update the mark information */ 1503 if (REST_GetMarkedTotalSize (REST_Handle, lclIsType); 1504 REST_UpdateMarkedInfo (numberMarked, 1505 totalMarked, 1506 totalUnMarked, 1507 numberBad); 1508 } 1509 /* Update the search results action buttons */ 1510 REST_SearchUpdateButtons (); 1511 } 1512 1513 1514 </pre>	<pre> 1419 6 1420 6 1421 6 1422 6 1423 6 1424 6 1425 6 1426 6 1427 6 1428 6 1429 6 1430 6 1431 6 1432 6 1433 6 1434 6 1435 6 1436 6 1437 6 1438 6 1439 6 1440 6 1441 6 1442 6 1443 6 1444 6 1445 6 1446 6 1447 6 1448 6 1449 6 1450 6 1451 6 1452 6 1453 6 1454 6 1455 6 1456 6 1457 6 1458 6 1459 6 1460 6 1461 6 1462 6 1463 6 1464 6 1465 6 1466 6 1467 6 1468 6 1469 6 1470 6 1471 6 1472 6 1473 6 1474 6 1475 6 1476 6 1477 6 1478 6 1479 6 1480 6 1481 6 1482 6 1483 6 1484 6 1485 6 1486 6 1487 6 1488 6 1489 6 1490 6 1491 6 1492 6 1493 6 1494 6 1495 6 1496 6 1497 6 1498 6 1499 6 1500 6 1501 6 1502 6 1503 6 1504 6 1505 6 1506 6 1507 6 1508 6 1509 6 1510 6 1511 6 1512 6 1513 6 1514 6 1515 6 1516 6 1517 6 1518 6 1519 6 1520 6 1521 6 1522 6 1523 6 1524 6 1525 6 1526 6 1527 6 1528 6 1529 6 1530 6 1531 6 1532 6 1533 6 1534 6 1535 6 1536 6 1537 6 1538 6 1539 6 1540 6 1541 6 1542 6 1543 6 1544 6 1545 6 1546 6 1547 6 1548 6 1549 6 1550 6 1551 6 1552 6 1553 6 1554 6 1555 6 1556 6 1557 6 1558 6 1559 6 1560 6 1561 6 1562 6 1563 6 1564 6 1565 6 1566 6 1567 6 1568 6 1569 6 1570 6 1571 6 1572 6 1573 6 1574 6 1575 6 1576 6 1577 6 1578 6 1579 6 1580 6 1581 6 1582 6 1583 6 1584 6 1585 6 1586 6 1587 6 1588 6 1589 6 1590 6 1591 6 1592 6 1593 6 1594 6 1595 6 1596 6 1597 6 1598 6 1599 6 1600 6 1601 6 1602 6 1603 6 1604 6 1605 6 1606 6 1607 6 1608 6 1609 6 1610 6 1611 6 1612 6 1613 6 1614 6 1615 6 1616 6 1617 6 1618 6 1619 6 1620 6 1621 6 1622 6 1623 6 1624 6 1625 6 1626 6 1627 6 1628 6 1629 6 1630 6 1631 6 1632 6 1633 6 1634 6 1635 6 1636 6 1637 6 1638 6 1639 6 1640 6 1641 6 1642 6 1643 6 1644 6 1645 6 1646 6 1647 6 1648 6 1649 6 1650 6 1651 6 1652 6 1653 6 1654 6 1655 6 1656 6 1657 6 1658 6 1659 6 1660 6 1661 6 1662 6 1663 6 1664 6 1665 6 1666 6 1667 6 1668 6 1669 6 1670 6 1671 6 1672 6 1673 6 1674 6 1675 6 1676 6 1677 6 1678 6 1679 6 1680 6 1681 6 1682 6 1683 6 1684 6 1685 6 1686 6 1687 6 1688 6 1689 6 1690 6 1691 6 1692 6 1693 6 1694 6 1695 6 1696 6 1697 6 1698 6 1699 6 1700 6 1701 6 1702 6 1703 6 1704 6 1705 6 1706 6 1707 6 1708 6 1709 6 1710 6 1711 6 1712 6 1713 6 1714 6 1715 6 1716 6 1717 6 1718 6 1719 6 1720 6 1721 6 1722 6 1723 6 1724 6 1725 6 1726 6 1727 6 1728 6 1729 6 1730 6 1731 6 1732 6 1733 6 1734 6 1735 6 1736 6 1737 6 1738 6 1739 6 1740 6 1741 6 1742 6 1743 6 1744 6 1745 6 1746 6 1747 6 1748 6 1749 6 1750 6 1751 6 1752 6 1753 6 1754 6 1755 6 1756 6 1757 6 1758 6 1759 6 1760 6 1761 6 1762 6 1763 6 1764 6 1765 6 1766 6 1767 6 1768 6 1769 6 1770 6 1771 6 1772 6 1773 6 1774 6 1775 6 1776 6 1777 6 1778 6 1779 6 1780 6 1781 6 1782 6 1783 6 1784 6 1785 6 1786 6 1787 6 1788 6 1789 6 1790 6 1791 6 1792 6 1793 6 1794 6 1795 6 1796 6 1797 6 1798 6 1799 6 1800 6 1801 6 1802 6 1803 6 1804 6 1805 6 1806 6 1807 6 1808 6 1809 6 1810 6 1811 6 1812 6 1813 6 1814 6 1815 6 1816 6 1817 6 1818 6 1819 6 1820 6 1821 6 1822 6 1823 6 1824 6 1825 6 1826 6 1827 6 1828 6 1829 6 1830 6 1831 6 1832 6 1833 6 1834 6 1835 6 1836 6 1837 6 1838 6 1839 6 1840 6 1841 6 1842 6 1843 6 1844 6 1845 6 1846 6 1847 6 1848 6 1849 6 1850 6 1851 6 1852 6 1853 6 1854 6 1855 6 1856 6 1857 6 1858 6 1859 6 1860 6 1861 6 1862 6 1863 6 1864 6 1865 6 1866 6 1867 6 1868 6 1869 6 1870 6 1871 6 1872 6 1873 6 1874 6 1875 6 1876 6 1877 6 1878 6 1879 6 1880 6 1881 6 1882 6 1883 6 1884 6 1885 6 1886 6 1887 6 1888 6 1889 6 1890 6 1891 6 1892 6 1893 6 1894 6 1895 6 1896 6 1897 6 1898 6 1899 6 1900 6 1901 6 1902 6 1903 6 1904 6 1905 6 1906 6 1907 6 1908 6 1909 6 1910 6 1911 6 1912 6 1913 6 1914 6 1915 6 1916 6 1917 6 1918 6 1919 6 1920 6 1921 6 1922 6 1923 6 1924 6 1925 6 1926 6 1927 6 1928 6 1929 6 1930 6 1931 6 1932 6 1933 6 1934 6 1935 6 1936 6 1937 6 1938 6 1939 6 1940 6 1941 6 1942 6 1943 6 1944 6 1945 6 1946 6 1947 6 1948 6 1949 6 1950 6 1951 6 1952 6 1953 6 1954 6 1955 6 1956 6 1957 6 1958 6 1959 6 1960 6 1961 6 1962 6 1963 6 1964 6 1965 6 1966 6 1967 6 1968 6 1969 6 1970 6 1971 6 1972 6 1973 6 1974 6 1975 6 1976 6 1977 6 1978 6 1979 6 1980 6 1981 6 1982 6 1983 6 1984 6 1985 6 1986 6 1987 6 1988 6 1989 6 1990 6 1991 6 1992 6 1993 6 1994 6 1995 6 1996 6 1997 6 1998 6 1999 6 2000 6 </pre>
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1516 //*****
1517 * Function Name: REST_SearchServlet ()
1518 *
1519 * Description: This will set the current restore window's view to
1520 * the currently selected item in the search results list box.
1521 * This routine assumes only one item is selected, if multiples
1522 * are selected, only the first selected item will be acted upon.
1523 *
1524 * Parameters:
1525 * None.
1526 *
1527 * Success Outputs and Side Effects:
1528 * The selected item will be in the restore view.
1529 *
1530 * Returns:
1531 * None.
1532 *
1533 *****
1534 void REST_SearchServlet (void)
1535 {
1536     REST_FoundObject obj;
1537     REST_FoundObject obj2;
1538     Boolean found = FALSE;
1539     String fullname;
1540     /* Info for the selected row */
1541     /* Flag if we found the row */
1542     /* Full name of the object */
1543     /* Do nothing if we're searching, or a restore is in progress */
1544     if (REST_SearchInProgress() || REST_RestoreInProgress())
1545         return;
1546     /* If anything is selected */
1547     if (LBOX.getSelectedIndex (REST_SearchWindow->FListBox) == -1)
1548         return;
1549     /* Go to the first row */
1550     LBOX.setSelectedIndex (0);
1551     /* Loop through all rows that have data */
1552     info = (REST_FoundObject) LBOX.getSelectedData();
1553     while (!found && (info != null))
1554     {
1555         /* If this row is selected, set the view */
1556         if (LBOX.getSelectedIndex (REST_SearchWindow->FListBox) == LBOX.getSelectedIndex (info))
1557         {
1558             /* Set the backup view to this object */
1559             fullname = obj.fullname;
1560             REST_SetDirectoryChars (fullname);
1561             REST_SetBackupView (info->backupTime, fullname);
1562             GUITL.Free (fullname);
1563             /* Flag that we found it */
1564             found = TRUE;
1565         }
1566         /* Otherwise, go to the next row */
1567         else
1568         {
1569             LBOX.setSelectedIndex (LBOX.getSelectedIndex () + 1);
1570             info = (REST_FoundObject) LBOX.getSelectedData();
1571         }
1572     }
1573     REST_SetDirectoryChars (fullname);
1574     REST_SetBackupView (info->backupTime, fullname);
1575 }

```

```

1575 3 }
1576 2 }
1577 1 }
1578 }

```

```

1580  /*****
1581  * Function Name:  REST_ClearFoundBox ()
1582  * Description:
1583  * This routine will clear all items from the search results list
1584  * box.
1585  *
1586  * Parameters:
1587  * None.
1588  *
1589  * Success Outputs and Side Effects:
1590  * The search results list box will be empty.
1591  *
1592  * Returns:
1593  * None.
1594  *
1595  *****/
1596  void REST_ClearFoundBox (void)
1597  {
1598  REST_FoundObjectPtr thisObject;
1599  REST_FoundObjectPtr nextObject;
1600  }
1601  /* Free the current found list */
1602  thisObject = firstFoundObject;
1603  while (thisObject != NULL)
1604  {
1605  nextObject = thisObject->next;
1606  REST_SearchDisposeInfo (thisObject);
1607  thisObject = nextObject;
1608  }
1609  firstFoundObject = NULL;
1610  lastFoundObject = NULL;
1611  }
1612  /* Set everything to zero and blank */
1613  void REST_Set (TREDICT)REST_SearchWindow->ItemFoundText, "");
1614  }
1615  /* Reset the list box and start at the beginning */
1616  LBOX_AllUnselect (REST_SearchWindow->FoundBox);
1617  LBOX_Reset (REST_SearchWindow->FoundBox);
1618  LBOX_GetInfo (REST_SearchWindow->FoundBox);
1619  }
1620  CTRL_LBOX_PillVirtual (REST_SearchWindow->FoundBox, 0);
1621  }
1622  /* Update the search results action buttons */
1623  REST_SearchUpdateButtons ();
1624  }
1625  )

```

```

1627  /*****
1628  * Function Name:  REST_SearchInitiaize ()
1629  * Description:
1630  * This routine will initialize the use of the search window
1631  * functions.
1632  *
1633  * Parameters:
1634  * None.
1635  *
1636  * Success Outputs and Side Effects:
1637  * None.
1638  *
1639  * Returns:
1640  * None.
1641  *
1642  *****/
1643  void REST_SearchInitiaize (void)
1644  {
1645  static BoolEnum initialized = BOOL_FALSE;
1646  /* Flag if we have init'd yet */
1647  if (!initialized)
1648  {
1649  /* If we haven't initialized already, initialize */
1650  if (!initialized)
1651  {
1652  /* Get the icons */
1653  searchIcon = gIcon_GetIconBySize (I_DIALOGED, ICON_SMALL);
1654  searchFileIcon = gIcon_GetIconBySize (I_FILE, ICON_SMALL);
1655  searchCheckBoxIcon = gIcon_GetIconBySize (I_CHECKBOX, ICON_SMALL);
1656  searchCheckBoxIcon = gIcon_GetIconBySize (I_CHECK, ICON_SMALL);
1657  searchOffsiteIcon = gIcon_GetIconBySize (I_SELECTED_CHECK, ICON_SMALL);
1658  searchOffsiteIcon = gIcon_GetIconBySize (I_OFFSITE, ICON_SMALL);
1659  searchBadIcon = gIcon_GetIcon (I_BADOBJECT);
1660  }
1661  /* Flag that we have already initialized */
1662  initialized = BOOL_TRUE;
1663  }
1664  }
1665  }

```



```

1  /
2  * resutils.c
3  *
4  *
5  * Copyright 1996 by Epoch Systems, Inc.
6  *
7  *
8  * Mission Statement:
9  *   This file contains the utility functions for the EDM Restore
10  *   window.
11  *
12  * Required Includes:
13  *   None
14  *
15  * Compile-Time Options:
16  *   N/A
17  *
18  * RCS Information:
19  *   $RCSfile$
20  *   $Revision$
21  *   $Date$
22  *
23  *
24  #define EDM_LIB RESTORE
25
26 #include <sys/cdefs.h>
27 #include <sys/types.h>
28
29 #include <stdio.h>
30
31 #include <libgen.h>
32 #include <time.h>
33
34 #include <unistd.h>
35 #include <sys/types.h>
36 #include <sys/stat.h>
37 #include <sys/time.h>
38 #include <sys/param.h>
39 #include <sys/mount.h>
40
41 #include "restored_struct.h"
42 #include "restored_def.h"
43 #include "restored_restore.h"
44 #include "restored_restore.h"
45 #include "restored_restore.h"
46 #include "restored_restore.h"
47 #include "restored_restore.h"
48 #include "restored_restore.h"
49 #include "restored_restore.h"
50 #include "restored_restore.h"
51 #include "restored_restore.h"
52 #include "restored_restore.h"
53 #include "restored_restore.h"
54 #include "restored_restore.h"
55 #include "restored_restore.h"
56 #include "restored_restore.h"
57 #include "restored_restore.h"
58 #include "restored_restore.h"
59 #include "restored_restore.h"
60 #include "restored_restore.h"
61
62 #define RESTORE
63 #include "restored_restore.h"

```

```

64  * Constants
65  *
66  *
67  *
68  *
69  #define REST_MESSAGE_HEADER "RESTORE"
70  *
71  *
72  * Globals
73  *
74  *
75  static GUTTL_Meghandle restMsgList = NULL;
76
77  *
78  * REST_UtilityInitialize
79  *
80  * Description:
81  *   This routine will initialize the routines in the utilities
82  *   portion of
83  *
84  * Parameters:
85  *   None.
86  *
87  * Returns:
88  *   None.
89  *
90  *
91  *
92  void REST_UtilityInitialize (void)
93  {
94  /* Initialize the message utilities */
95  restMsgList = GUTTL_MeghandleInit ("restore", "RestoreStrut");
96  }

```


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<pre> 98 /*..... 99 * REST_GetErrorMessage 100 * 101 * Description: 102 * This routine will retrieve the error string for the given error 103 * index 104 * 105 * Parameters: 106 * errorIndex (I) - Index of the error string to retrieve 107 * 108 * Returns: 109 * Static pointer to the error string (do not overwrite!) 110 * 111 *..... 112 */ 113 Str REST_GetErrorMessage (int errorIndex) 114 { 115 Char messageCode(SMALL_STRING_LENGTH); 116 /* Built code in string format */ 117 118 /* Build the message code using the given index */ 119 Str_Sprintf (messageCode, "%s%d", REST_MESSAGE_HEADER, errorIndex); 120 121 /* Return the string at the index into the error message list */ 122 return (StrList_MessageKey (testSqlList, messageCode)); 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221 1222 1223 1224 1225 1226 1227 1228 1229 1230 1231 1232 1233 1234 1235 1236 1237 1238 1239 1240 1241 1242 1243 1244 1245 1246 1247 1248 1249 1250 1251 1252 1253 1254 1255 1256 1257 1258 1259 1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 1300 1301 1302 1303 1304 1305 1306 1307 1308 1309 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 1320 1321 1322 1323 1324 1325 1326 1327 1328 1329 1330 1331 1332 1333 1334 1335 1336 1337 1338 1339 1340 1341 1342 1343 1344 1345 1346 1347 1348 1349 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170 /.....
171 * REST_SprintHyper
172 *
173 * Description:
174 * This routine will fill the given string with a textual
    * representation
    * of the given hyper.
175 *
176 * Parameters:
177 * string (I) - The pre-allocated string to fill
178 * size (I) - The hyper to represent
179 *
180 * Returns:
181 * None.
182 *
183 *.....
184
185 void REST_SprintHyper (STR string,
186                       U_Hyper size)
187 {
188     /* Print the hyper to the string */
189     if (hyper_is_ulong(size))
190     {
191         STR_Sprintf (string, "%9u", size.low);
192     }
193     else
194     {
195         STR_Sprintf (string, "%s", format_u_hyper_for_output(size, 1, 0));
196     }
197 }

```

```

196 /.....
197 * REST_ScanHyper
198 *
199 * Description:
200 * This routine will retrieve a hyper from the given string.
201 *
202 * Parameters:
203 * string (I) - The string to read
204 * size (I) - The hyper to read into
205 *
206 * Returns:
207 * None.
208 *
209 *.....
210
211 void REST_ScanHyper (STR string,
212                     U_Hyper *size)
213 {
214     /* Call the esi routine to read the hyper */
215     string_to_u_hyper (string, size);
216 }

```

Page 411 of 444	REST_GetGroupShing	Fri Jan 04 14:31:46 2008	Page 412 of 444	REST_GetOwnerShing	Fri Jan 04 14:31:46 2008
218 219 220 221 222 223 224 225 226 227 228 229 230 231	<pre>/*.....*/ * REST_GetGroupShing * * Description: * This routine will return a string representation of the group * for the given info. * Parameters: * Info (I) - The item to get the group for. * * Returns: * A string representation of the group (copy immediately) * *****/ Str REST_GetGroupShing (RestoreInfoPtr Info) { static Char returnString[SMALL_STRING_LENGTH]; /* String to return */ Str groupString; if (Info->restoreObject != NULL) { groupString = (Str)EMREST_GetObjectGroupShing (GREST_Handle, Info->restoreObject); } else { STR_Copy (returnString, ""); } else {</pre>				

```

300 .....
301 * REST_GetPermissions .....
302 * Description:
303 * This routine will return a string representation of the
304 *   permissions
305 *   for the given info.
306 * Parameters:
307 *   info (I) - The item to get the Permissions for.
308 * Returns:
309 *   A string representation of the Permissions (Copy immediately)
310 .....
311 Str REST_GetPermissions (RestoreInfoPtr info)
312 {
313   static Char returnString(SMALL_STRING_LENGTH); /* String to return */
314   Str
315     permString;
316   if (info->restoreObject != NULL)
317   {
318     permString = REST_GetPermissionsString {
319       REST_Handle, info->restoreObject;
320     }
321   }
322   if (permString != NULL)
323   {
324     STR_Copy (returnString, permString);
325   }
326   else
327   {
328     STR_Copy (returnString, "");
329   }
330 }
331 }
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340 .....
341 * REST_GetTimeDateSmsg .....
342 * Description:
343 * This routine will return a string representation of the time and
344 *   date
345 *   for the given info.
346 * Parameters:
347 *   info (I) - The item to get the time and date for.
348 * Returns:
349 *   A string representation of the time and date (Copy immediately)
350 .....
351 Str REST_GetTimeDateSmsg (time_t theTime)
352 {
353   static Char returnString(MEDIUM_STRING_LENGTH); /* String to return */
354   Str
355     strTime {returnString,
356              MEDIUM_STRING_LENGTH,
357              "mm/dd/yyyy hh:mm",
358              localtime (&theTime));
359   return (returnString);
360 }
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1000 }

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Page 415 of 444	REST_GetDateString	Fri Jan 04 14:31:46 2008	Page 416 of 444	REST_GetDateAsString	Fri Jan 04 14:31:46 2008
<pre>367 /***** 368 * REST_GetDateAsString 369 * 370 * Description: 371 * This routine will return a string representation of the size 372 * for the given info. 373 * 374 * Parameters: 375 * info (I) - The item to get the size for. 376 * 377 * Returns: 378 * A string representation of the size (Copy immediately) 379 *****/ 380 381 Str REST_GetDateAsString (RestoreInfoOpt info) 382 { 383 static Char returnString[MEDIUM_STRING_LENGTH]; /* String to return */ 384 u_hyper size; /* Size fo the object */ 385 386 if ((info->type != REST_Client) && 387 (info->type != REST_WorkItem) && 388 (info->restoreObject != NULL)) 389 { 390 size = EXMNST_GetObjectSize(GREST_Handle, info->restoreObject); 391 } 392 else 393 { 394 size.high = 0; 395 size.low = 0; 396 } 397 REST_SprintfHyper (returnString, size); 398 return (returnString); 399 }</pre>	<pre>404 /***** 405 * REST_GetDateAsString 406 * 407 * Description: 408 * This routine will return a string representation of the Date 409 * for the given info. 410 * 411 * Parameters: 412 * info (I) - The item to get the Date for. 413 * 414 * Returns: 415 * A string representation of the Date (Copy immediately) 416 *****/ 417 418 Str REST_GetDateAsString (RestoreInfoOpt info) 419 { 420 static Char returnString[MEDIUM_STRING_LENGTH]; /* String to return */ 421 time_t theTime; /* Time of the object */ 422 423 if (info->restoreObject != NULL) 424 { 425 theTime = EXMNST_GetObjectSecModDate(426 GREST_Handle, info->restoreObject); 427 strftime (returnString, 428 MEDIUM_STRING_LENGTH, 429 "%b %d", 430 localtime (&theTime)); 431 } 432 else 433 { 434 STR_Copy (returnString, ""); 435 } 436 return (returnString); 437 }</pre>				

```

419  /*.....
420  * REST_GetTimeSring
421  *
422  * Description:
423  * This routine will return a string representation of the Time
424  * for the given info.
425  *
426  * Parameters:
427  *   Info (I) - The item to get the Time for.
428  *
429  * Returns:
430  *   A string representation of the Time (Copy Immediately)
431  * .....
432
433  Str REST_GetTimeSring (RestoreInfoPtr Info)
434  {
435  time_t      modificationTime;
436  time_t      now;
437  static Char  returningString[MEDIUM_STRING_LENGTH];
438  /* String to return */
439
440  if (Info->restoreObj == NULL)
441  {
442      /* Get the modification time */
443      modificationTime = SHARON_GetObjectModificationTime (REST_Handle,
444      /* If the time is more than 6 months old, show the year only */
445      now = time(&time_t);
446      if (now - modificationTime > (SECONDS_PER_YEAR / 21))
447      {
448          strftime (returningString,
449                  MEDIUM_STRING_LENGTH,
450                  "%Y",
451                  localtime (&modificationTime));
452      }
453      /* Otherwise, show the time */
454      else
455      {
456          strftime (returningString,
457                  MEDIUM_STRING_LENGTH,
458                  "%H:%M",
459                  localtime (&modificationTime));
460      }
461      STR_Copy (returningString, "");
462      return (returningString);
463  }
464
465  )

```

```

491  /*.....
492  * REST_StripDirectoryChars
493  *
494  * Description:
495  * This routine will strip off the ending directory characters from
496  * the given string;
497  *
498  * Parameters:
499  *   dirstring (I) - The string to strip
500  *
501  * Returns:
502  *   None.
503  * .....
504
505  void REST_StripDirectoryChars (Str dirstring)
506  {
507  Boolean      lastCharFound = BOOL_FALSE;
508  Int          lastChar;
509
510  /* Strip off trailing spaces and directory markers
511  */
512  while ((lastCharFound && lastChar > 0))
513  {
514      /* Check if the last character is a blank or directory marker */
515      if ((dirstring[lastChar] == ' ') ||
516          (dirstring[lastChar] == '\\'))
517      {
518          /* Remove the character from the string */
519          dirstring[lastChar] = '\0';
520          lastChar--;
521      }
522      else
523      {
524          /* Valid character */
525          lastCharFound = BOOL_TRUE;
526      }
527  }
528
529  )

```

Page 419 of 444	REST_GetFullName	Fri Jan 04 14:31:46 2008
535	/*.....*/	
536	* REST_GetFullName	
537	*	
538	* Description:	
539	* This routine will return a string representation of the FullName	
540	* for the given info.	
541	* Parameters:	
542	* Info (I) - The item to get the FullName for.	
543	* Returns:	
544	* A string representation of the FullName (copy immediately)	
545	*****	
546	*/	
547		
548		
549		
550	Str REST_GetFullName (RestoreInfoPtr info)	
551	{	
552	static Str returnString = NULL; /* The string to return */	
553		
554	/* Free the old string if necessary */	
555	if (returnString != NULL)	
556	GPFree (returnString);	
557		
558	/* If this is a client, the full name is the name */	
559	if (info->type == REST_Client)	
560	{	
561	returnString = eol_strdup (info->name);	
562	}	
563		
564	/* If this is a restore object,	
565	get the full name from the Restore API */	
566	else if (info->restoreObject != NULL)	
567	{	
568	returnString = eol_strdup (EDMRST_GetObjectName (
569	GMRST_Handle, info->restoreObject));	
570	}	
571	/* Else, just return the name (this should never happen) */	
572	else	
573	{	
574	returnString = eol_strdup (info->name);	
575	}	
576	/* Strip off any trailing directory characters */	
577	if ((info->type != REST_Client) &&	
578	(info->type != REST_WorkItem) &&	
579	(info->type != REST_FailedWorkItem))	
580	{	
581	REST_StripDirectoryChars (returnString);	
582	}	
583		
584	return (returnString);	
585	}	

Page 420 of 444	REST_GetNameString	Fri Jan 04 14:31:46 2008
587	/*.....*/	
588	* REST_GetNameString	
589	*	
590	* Description:	
591	* This routine will return a string representation of the Name	
592	* for the given info.	
593	* Parameters:	
594	* FileInfo (I) - The item to get the Name for.	
595	* Returns:	
596	* A string representation of the Name (copy immediately)	
597	*****	
598	*/	
599		
600		
601		
602	Str REST_GetNameString (GPWR_Context FMT,	
603	GPWR_Object FileInfo)	
604	{	
605	RestoreInfoPtr info; /* Real info for the object */	
606		
607	info = (RestoreInfoPtr)FileInfo;	
608		
609	return (info->name);	
610	}	

```

612  /*****
613  *
614  * REST_IsParenting
615  *
616  * Description:
617  *   This routine will return whether or not the given parent is the
618  *   parent of the given full child name.
619  *
620  * Parameters:
621  *   (1) - The parent to check
622  *   childName (1) - The full name of the child looking for.
623  *
624  * Returns:
625  *   BOOL_TRUE - If it is the parent.
626  *   BOOL_FALSE - If it is not the parent.
627  *****/
628
629  BoolEnum REST_IsParenting (RemoteInfo* parent,
630                             Str childName)
631  {
632      fullParentName; /* Full path for parent */
633      Int length;
634
635      /* Length of the full path name for parent */
636      BoolEnum retVal; /* Value to return */
637
638      /* Get the full path name for the parent object */
639      fullParentName = GetFullParentName(parent);
640      length = StrLen(fullParentName);
641
642      /* If the parent name ends in a directory marker,
643      compare only before it */
644      if ((fullParentName[length-1] == '\\') ||
645          (fullParentName[length-1] == '/'))
646      {
647          /* Decrease our comparison by a character */
648          length--;
649      }
650
651      /* Check that they match up to the end of the parent name
652      * and then the next child character is the dir symbol (\\)
653      * or the end of the string (1) is the children of themselves.
654      */
655      if (StrNCmp (fullParentName, childName, length) == CME_EQUAL)
656      {
657          retVal = ((childName[length] == '\\') ||
658                  (childName[length] == '/'));
659      }
660      else
661      {
662          retVal = BOOL_FALSE;
663      }
664
665      /* Now free the full name */
666      CUTIL_Free (fullParentName);
667      /* return */
668      return (retVal);
669  }
670

```

```

672  /*****
673  *
674  * REST_GetStatusIcon
675  *
676  * Description:
677  *   This routine will return the status overlay icon for the given
678  *   restore object status.
679  *
680  * Parameters:
681  *   (1) - The status of the object.
682  *
683  * Returns:
684  *   IconPtr - The icon to display as the overlay icon, possibly NULL.
685  *****/
686
687  IconPtr REST_GetStatusIcon (BackupStatus status)
688  {
689      IconPtr returnIcon;
690
691      /* If expired, return the expired icon */
692      if (status == Backup_Expired)
693      {
694          returnIcon = REST_ExpiredIcon;
695      }
696
697      /* Else if expired children, return the missing children icon */
698      else if (status == Backup_Child_Without_Data)
699      {
700          returnIcon = REST_MissingChildrenIcon;
701      }
702
703      /* Else if the object status is bad, return the bad icon */
704      else if (status == Backup_Bad)
705      {
706          returnIcon = REST_BadIcon;
707      }
708
709      /* Else return no icon */
710      else
711      {
712          returnIcon = NULL;
713      }
714
715      return (returnIcon);
716  }

```


Page 423 of 444	restutils.c 19	Fri Jan 04 14:31:46 2008	Page 424 of 444	restutils.c 20	Fri Jan 04 14:31:46 2008
<pre> 718 /* 719 * REST_GetIcon 720 * 721 * Description: 722 * This routine will return the icon to display for the given object. 723 * This routine is generally called from the file manager. 724 * 725 * Parameters: 726 * FileInfoObject (I) - The object 727 * IsOpen (I) - Flag if the object is "open" 728 * Returns: 729 * The icon to display (can be NULL). 730 */ 731 732 IconPtr REST_GetIcon (GPMR_Context Ptr, 733 GPMR_Object FileInfoObject, 734 Boolean IsOpen) 735 { 736 RestoreInfoPtr info; /* The real info for the object */ 737 IconPtr returnIcon; /* The icon to display */ 738 /* Cast back to the real object */ 739 info = (RestoreInfoPtr)FileInfoObject; 740 /* Get the status icon */ 741 returnIcon = REST_GetStatusIcon (info->status); 742 /* If status does not need to be displayed, 743 display the object icon */ 744 if (returnIcon == NULL) 745 { 746 /* If this object is open and it is a directory, 747 return the dir open icon */ 748 if ((IsOpen) && (info->type == REST_Directory)) 749 returnIcon = REST_DirOpenIcon; 750 /* Else return the current icon for the object */ 751 else 752 returnIcon = info->icon; 753 } 754 /* Return the icon */ 755 return (returnIcon); 756 } 757 } </pre>	<pre> 758 759 * REST_GetIcon2 760 * 761 * Description: 762 * This routine will return the icon to display for the given object. 763 * This routine is generally called from the file manager. 764 * 765 * Parameters: 766 * FileInfoObject (I) - The object 767 * IsOpen (I) - Flag if the object is "open" 768 * Returns: 769 * The icon to display (can be NULL). 770 */ 771 772 IconPtr REST_GetIcon2 (GPMR_Context Ptr, 773 GPMR_Object FileInfoObject, 774 Boolean IsOpen) 775 { 776 RestoreInfoPtr info; /* The real info for the object */ 777 IconPtr tempIcon; /* Temporary icon */ 778 IconPtr returnIcon; /* The icon to display */ 779 /* Cast back to the real object */ 780 info = (RestoreInfoPtr)FileInfoObject; 781 tempIcon = REST_GetStatusIcon (info->status); 782 /* If status needed to be displayed, 783 display the object icon second */ 784 if (tempIcon != NULL) 785 { 786 /* If this object is open and it is a directory, 787 return the dir open icon */ 788 if ((IsOpen) && (info->type == REST_Directory)) 789 returnIcon = REST_DirOpenIcon; 790 /* Else return the current icon for the object */ 791 else 792 returnIcon = info->icon; 793 } 794 /* Return the icon */ 795 return (returnIcon); 796 } 797 } </pre>				

```

812 /.....
813 * REST_GetOverlayIcon
814
815 * Description:
816 * This routine will return the overlay icon to display for the
817 *   given object.
818 * This routine is generally called from the file manager.
819
820 * Parameters:
821 *   FileObject (I) - The object
822 * Returns:
823 *   The overlay icon to display (can be NULL).
824
825 ...../
826
827 IconPtr REST_GetOverlayIcon (GPRR_Context Fmgr,
828                               GPRR_Object FileObject)
829 {
830     return (NULL);
831 }

```

```

833 /.....
834 * REST_GetOverlayIcon2
835
836 * Description:
837 * This routine will return the overlay icon to display for the
838 *   given object.
839 * This routine is generally called from the file manager.
840
841 * Parameters:
842 *   FileObject (I) - The object
843 * Returns:
844 *   The overlay icon to display (can be NULL).
845
846 ...../
847
848 IconPtr REST_GetOverlayIcon2 (GPRR_Context Fmgr,
849                               GPRR_Object FileObject)
850 {
851     return (NULL);
852 }

```

Page 427 of 444	REST_DisposeInfo	Fri Jan 04 14:31:46 2008	Page 428 of 444	REST_FreeNode	Fri Jan 04 14:31:46 2008
854 855 856 857 858	<pre> /* * REST_DisposeInfo * * Description: * This routine will free the info memory associated with the given * object. </pre>		887 888 889 890 891	<pre> /* * REST_FreeNode * * Description: * This routine will free all memory associated with the given * object * and all of the object's children. </pre>	
859 860 861 862 863 864 865 866	<pre> * Parameters: * Info (I) - The item to dispose of. * * Returns: * None. * * ***** </pre>		892 893 894 895 896 897 898 899	<pre> * Parameters: * Info (I) - The item to free. * * Returns: * None. * * ***** </pre>	
868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885	<pre> void REST_DisposeInfo (RestoreInfoPtr Info) { /* Sanity check, make sure no bonthead called us with a NULL info */ if (Info == NULL) { /* Free up the name for this object */ GUTIL_Free (Info->name); /* Free up the error string if it existed */ if (Info->errorString != NULL) GUTIL_Free (Info->errorString); /* Free up the object */ GUTIL_Free (Info); } } </pre>		900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918	<pre> void REST_FreeNode (RestoreInfoPtr Info) { RestoreInfoPtr childInfo; /* Child info to free */ RestoreInfoPtr nextChild; /* Pointer to next child */ /* Make sure there is info to free */ if (Info != NULL) { /* Free up any children of this object */ childInfo = Info->children; while (childInfo != NULL) { nextChild = childInfo->next; REST_FreeNode (childInfo); childInfo = nextChild; } /* Free up the associated restorable object if it exists */ if (Info->restoreObject != NULL) { EIMNST_FreeRestorableObjects (GREST_Handle, kInfo->restoreObject, 1); } /* Free up the memory for this object */ REST_DisposeInfo (Info); } } </pre>	
924 925 926 927 928 929			924 925 926 927 928 929		

```

913  /*****
914  * REST_IdeasTesthan
915  *
916  * Description:
917  *   This routine determines if an object is "less than" another object
918  *   based on current sort criteria.
919  *
920  * Parameters:
921  *   item1 - The item in question
922  *   item2 (i) - The item to compare to
923  *
924  * Returns:
925  *   BOOL_TRUE - If item1 < item2
926  *   BOOL_FALSE - If item1 >= item2
927  *
928  *****/
929  Boolean REST_IdeasTesthan (RestoreInfoObj item1,
930                             RestoreInfoObj item2)
931  {
932      Char string1[CMAX_OBJECT_LENGTH]; /* String for item1 */
933      Char string2[CMAX_OBJECT_LENGTH]; /* String for item2 */
934      U_Hyper size1; /* Size for item1 */
935      U_Hyper size2; /* Size for item2 */
936      CmpNum cmpValue; /* Value returned by comparison */
937      Boolean returnValue; /* Value to return */
938      REST_SortType currentSort; /* Current type of sort to use */
939
940      /* Based on the current sort criteria, compare the two items */
941      currentSort = REST_GetSort ();
942      switch (currentSort)
943      {
944          /* If sorting by name, compare the names */
945          case REST_ByName:
946              returnValue = (STR_Cmp (item1->name, item2->name) == CMP_UNDER);
947              break;
948
949          /* If sorting by type, compare the types */
950          case REST_ByType:
951              if (item1->type == item2->type)
952                  returnValue = (STR_Cmp (
953                      item1->name, item2->name) == CMP_UNDER);
954              else
955                  returnValue = (item1->type < item2->type);
956              break;
957
958          /* If sorting by date, compare the dates */
959          case REST_ByDate:
960              /* Date works backwards, sort by latest time first */
961              returnValue = (EDMRST_GetObjacthoddate (item1->restoreobj) >
962                  EDMRST_GetObjacthoddate (item2->restoreobj));
963              break;
964
965          /* If sorting by size, compare the sizes */
966          case REST_BySize:
967              /* Size works backwards, sort by largest size first */
968              size1 = EDMRST_GetObjectSize(REST_Handle, item1->restoreobj);
969              size2 = EDMRST_GetObjectSize(REST_Handle, item2->restoreobj);
970              if (size1 > size2)
971                  returnValue = TRUE;
972              else
973                  returnValue = FALSE;
974              break;
975      }
976  }

```

```

993  returnValue = BOOL_TRUE;
994  else if ((size1 > size2) && (size1 > size2_low))
995      returnValue = TRUE;
996  else if ((size1 > size2_high) && (size1 > size2_low))
997      returnValue = (STR_Cmp (
998          item1->name, item2->name) == CMP_UNDER);
999  else
1000      returnValue = BOOL_FALSE;
1001  break;
1002
1003  /* If sorting by owner, compare the owners */
1004  case REST_ByOwner:
1005      STR_Copy (string1, REST_GetOwnerString(item1));
1006      STR_Copy (string2, REST_GetOwnerString(item2));
1007      cmpValue = STR_Cmp (string1, string2);
1008      if (cmpValue == CMP_UNDER)
1009          returnValue = BOOL_TRUE;
1010      else if (cmpValue == CMP_EQUAL)
1011          returnValue = (STR_Cmp (
1012              item1->name, item2->name) == CMP_UNDER);
1013      else
1014          returnValue = BOOL_FALSE;
1015      break;
1016
1017  default:
1018      /* Hmmmm... Oh well, sort by name */
1019      returnValue = (STR_Cmp (item1->name, item2->name) == CMP_UNDER);
1020  }
1021
1022  /* Return the value determined */
1023  return (returnValue);
1024  }

```

Page 431 of 444	REST_IsBadObject	Fri Jan 04 14:31:46 2008	Page 432 of 444	REST_IsHasChildren	Fri Jan 04 14:31:46 2008
1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037	<pre>/* * REST_IsBadObject * * Description: * This routine will determine if the object status is bad. * Parameters: * Info (I) - The object to check the status of. * * Returns: * BOOL_TRUE - If the object status is bad * BOOL_FALSE - otherwise *****/ BooleanNum REST_IsBadObject (RestoreInfoPtr Info) { BooleanNum returnValue; /* Value to return */ /* If this is a Restore API object and it has a bad status */ if (Info->Status == Backup_Bad) { /* This is a bad, bad, object */ returnValue = BOOL_TRUE; } else { /* This object has been very good */ returnValue = BOOL_FALSE; } /* Return whether or not the object is bad */ return (returnValue); }</pre>	1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057	<pre>/* * REST_IsHasChildren * * Description: * This routine is provided for the file manager. It determines * if the given object can have children. * Parameters: * FileInfoPtr (I) - Object to check for children. * * Returns: * None. *****/ BooleanNum REST_IsHasChildren (GRFN_Context Msg, GRFN_Object FileInfo) { RestoreInfoPtr Info; BooleanNum returnValue; /* Value to return */ /* Get the real data type for the object */ Info = (RestoreInfoPtr)FileInfo; /* If this is a directory, client, or a work-item, it has children */ if ((Info->Type == REST_Directory) (Info->Type == REST_Client) (Info->Type == REST_WorkItem)) { returnValue = BOOL_TRUE; } else { /* Otherwise it has no children */ returnValue = BOOL_FALSE; } /* Return whether or not it has children */ return (returnValue); }</pre>	1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100	
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```

1102  /*****
1103  * RST_StandardizePath
1104  *
1105  * Description:
1106  * This routine is provided to convert the given path into
1107  * standard UNIX format. I.e., C:\ABC will be modified as /C:/ABC
1108  * All backslashes will be made forwardslashes if a colon appears
1109  * after the first Alphabet.
1110  *
1111  * Parameters:
1112  * Str : The data in this string is modified.
1113  *
1114  * Returns:
1115  * BOOL_TRUE
1116  *
1117  *****/
1118  Boolean RST_StandardizePath(Str pathname)
1119  {
1120  int i;
1121  int pathlength = strlen(pathname);
1122  if(pathname == NULL || pathlength < 2 )
1123  return BOOL_FALSE;
1124  /* NT style paths have first character as a drive name, i.e.,
1125  character followed by a colon */
1126  if( ':' == pathname[1] &&
1127  { toupper(pathname[0]) >= 'A' && toupper(
1128  pathname[1] == pathname[0];
1129  pathname[0] = '/';
1130  }
1131  /* If it is NT style path,
1132  then the backslashes should also be converted
1133  into forward slashes.
1134  for(i=2; i<pathlength; i++)
1135  {
1136  if( '\\' == pathname[i] ) /* need another back slash to hide
1137  it */
1138  pathname[i] = '/';
1139  }
1140  return BOOL_TRUE;
1141  }
1142  )

```



```

1 //.....
2 * roas-starting.c
3
4 *
5 * Copyright 1996 by Epoch Systems, Inc.
6
7 *
8 * Mission Statement:
9 * This file contains the functions necessary for starting the
10 * the EDM Restoral.
11
12 * Required includes:
13 * None
14
15 * Compile-Time Options:
16 * N/A
17
18 *
19 * RCS Information:
20 * $RCSfile$
21 * $Revision$
22 * $Date$
23
24
25 #define ERR_LIB RESTORE
26
27 #include <fcntl.h>
28 #include <fcntl.h>
29 #include <fcntl.h>
30 #include <fcntl.h>
31 #include <fcntl.h>
32
33 #include <fcntl.h>
34
35 /* WARNING: UNIX DEPENDENCY!! Used for polling sockets */
36 #include <poll.h>
37
38 #include <unistd.h>
39
40 #include <fcntl.h>
41 #include <fcntl.h>
42
43 #include <fcntl.h>
44 #include <fcntl.h>
45 #include <fcntl.h>
46 #include <fcntl.h>
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56 #include <fcntl.h>
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60 #include <fcntl.h>
61 #include <fcntl.h>
62 #include <fcntl.h>
63 #include <fcntl.h>
64 #include <fcntl.h>
65 #include <fcntl.h>

```

```

66 #include "restMg.h"
67 #include "restMg.h"
68 #include "restMg.h"
69 #include "restMg.h"
70 #include "restMg.h"
71 #include "restMg.h"
72 #include "restMg.h"
73 #include "restMg.h"
74 #include "restMg.h"
75 #include "restMg.h"
76 #include "restMg.h"
77
78 //.....
79 * Local Data Structures *
80 *.....
81
82 typedef struct _REST_TimerRec
83 {
84     int startPri;
85     void (*timeoutProc)();
86     void *data;
87     REST_TimerRec *nextTimerRec;
88 } REST_TimerRec;
89
90 #define REST_VerifyMedia
91
92 /* Description:
93  * This routine will verify the media for the current restore
94  * Parameters:
95  * None.
96  * Returns:
97  * TRUE - If it is OK to proceed with restore
98  * FALSE - If there is offline/offsite media and the user
99  * cancelled
100
101 *.....
102
103 static Boolean REST_VerifyMedia ( void )
104 {
105     GREST_MediaObject nextMedia;
106     Boolean
107     OKtoRestore = TRUE;
108     Boolean
109     errorDisplayed = FALSE;
110
111     /* Loop through the current media list.
112     * If any one is not online,
113     * ask the user if he/she wants to proceed.
114     */
115
116     LBOX_GetCListRow (REST_RestoreWin->MediaListBox, 1);
117     nextMedia = (GREST_MediaObject) LBOX_GetCListEntryData (
118     while (nextMedia != NULL) && (errorDisplayed)
119     {
120         /* IF the media is offline or offsite, display a warning */
121         if (EDMRST_GetMediaStatus (
122             GREST_Handle, nextMedia) != Media.Offline)
123         {
124             /* Flag that the error has been displayed */
125             errorDisplayed = TRUE;
126         }
127     }
128 }

```



```

124 3      errorDisplayed = BOOL_TRUE;

126 3      /* Ask the user if he/she wants to continue anyway */
127 3      if (GALERT_DisplayQuestion ((MHP1)REST_Nestorin,
128 3          REST_GetMediaSection(
129 3              REST_OfflineMedia_Title),
130 3              GETCON_GetWarning(),
131 3              REST_GetProSeString(
132 3                  REST_OfflineMedia_Error),
133 3                  BOOL_FALSE) != GALERT_Affirmative)
134 3      {
135 3          /* The user cancelled the restore */
136 3          OKtoRestore = BOOL_FALSE;
137 3      }
138 3      LBOX_GoDown (REST_Nestorin->MediaListBox);
139 3      nextMedia = (REST_MediaObject) LBOX_CurrentClientData (
140 3          REST_Nestorin->MediaListBox);
141 3      }
142 3      /* Return whether or not it is OK to proceed with the restore */
143 3      return (OKtoRestore);
144 3  }

```

```

146 3      /* .....
147 3      * REST_StartRestore
148 3      * Description:
149 3      * This routine start the restore of the currently marked objects.
150 3      * Parameters:
151 3      * None.
152 3      * Returns:
153 3      * None.
154 3      * .....
155 3      void REST_StartRestore (void)
156 3      {
157 3          Boolean
158 3          inplace;
159 3          Char
160 3              hostname[MAX_CLIENT_NAME_LENGTH];
161 3              /* Flag if this is inplace */
162 3              /* Host to restore to */
163 3              Char
164 3                  destHostName[MAX_CLIENT_NAME_LENGTH];
165 3                  /* Host to restore to */
166 3                  Char
167 3                      dirName[MAX_STRING_LENGTH];
168 3                      /* Directory to restore to */
169 3                      tmpInfo;
170 3                      /* Pointer to walk list */
171 3                      RestoreInfoPtr
172 3                          policy;
173 3                          /* Overwrite policy */
174 3                          RestoreTransport
175 3                              transport;
176 3                              /* Data Transport type */
177 3                              /* Error Status */
178 3                              eerrno_ty
179 3                                  eerrno;
180 3                                  /* Do nothing if we're searching, or a restore is in progress */
181 3                                  if (REST_SearchInProgress() ||
182 3                                      if (REST_RestoreInProgress() ||
183 3                                          (currentWorkItemInfo == NULL))
184 3                                  {
185 3                                      return;
186 3                                  }
187 3                                  /* Verify that the media is online or the user doesn't care */
188 3                                  if ((REST_VerifyMedia ())
189 3                                      {
190 3                                          return;
191 3                                      }
192 3                                  /* Find the client object for this work-item
193 3                                  * Default to in place host and directory
194 3                                  */
195 3                                  /* Use the current info */
196 3                                  tmpInfo = currentWorkItemInfo;
197 3                                  /* Find the client for this restored */
198 3                                  while ((tmpInfo != NULL) && (tmpInfo->type != REST_Client))
199 3                                  {
200 3                                      tmpInfo = tmpInfo->parent;
201 3                                  }
202 3                                  /* If we found the client get its name */
203 3                                  if (tmpInfo != NULL)
204 3                                  {
205 3                                      STRN_Cpy (hostname, tmpInfo->name);
206 3                                  }
207 3  }

```

```

205 1 /* Else we have no host ?? */
206 2 {
207 3     STR_Copy (hostname, "");
208 4 }
209 5
210 6 /* Default the directory name to the root directory */
211 7 STR_Copy (dirname, "/");
212 8
213 9 if (REST_GetDestinationInfo ((WIPRT)REST_RestoreWin,
214 10                             destHostName,
215 11                             dirname,
216 12                             &policy,
217 13                             &transport))
218 14 {
219 15     /* Submit the restore */
220 16     if ((errno = EXRST_Submit (GREST_Handle,
221 17                             destHostName,
222 18                             policy,
223 19                             dirname,
224 20                             transport,
225 21                             0,
226 22                             NULL)) != 0)
227 23     {
228 24         REST_DisplayErrorMessage ((WIPRT)REST_RestoreWin,
229 25                                     NULL,
230 26                                     REST_GetErrorString ( REST_START_ERROR,
231 27                                                             errno));
232 28     }
233 29 }
234 30
235 31 }
236 32 else
237 33 {
238 34     REST_StartProgress ();
239 35 }
240 36 }
241 37 }

```

